

SUBJECT INDEX TO VOLUME 67

Subject entries for all material in the JOURNAL appear in this index. The name of the author of an original article, in brackets, follows the subject entry. Entries from the JOURNAL departments are identified as follows: Book Reviews—(BR); Clinical Reports—(CR); Correspondence—(CO); Editorial Views—(EV); Laboratory Reports—(LR); Original Article—(OA); Review Article—(RA); Medical Intelligence—(MI); Special Article—(SA); Reports of Scientific Meetings—(SM).

A

Aberrant artery, See under Arteries

Acid-base equilibrium

acidosis

effect of pH on calcium uptake in presence of anesthetics (LR) [Casella, Suite, Fisher & Blanck], 386

alkalosis

effect of pH on calcium uptake in presence of anesthetics (LR) [Casella, Suite, Fisher & Blanck], 386

buffers

during surgery in obstetric and gynecologic patients (CR) [Faure, Lim, Block, Tan & Roizen], 274

distributions of pH and H⁺

evaluation and comparison of (LR) [Colliver, Manchikanti & Markwell], 391

fetal

in maternal hypotension during epidural anesthesia for cesarean section (CR) [Brizgys, Dailey, Shneider, Kotenko & Levinson], 782

gastric pH versus H⁺

evaluation and comparison of (LR) [Colliver, Manchikanti & Markwell], 391

lactate

in response to tourniquet release in children (CR) [Brustowicz, Moncorge & Koka], 792

pH versus H⁺

evaluation and comparison of (LR) [Colliver, Manchikanti & Markwell], 391

sodium bicarbonate

during surgery in obstetric and gynecologic patients (CR) [Faure, Lim, Block, Tan & Roizen], 274

Acidosis, See under Acid-base equilibrium

ACTH, See under Brain

Action potential, See under Heart

Adaptive feedback control, See under Pharmacokinetics

Addition to anesthetics, See under Anesthetics

Adductor pollicis muscle, See under Muscle

Adenosine diphosphate, See under Metabolism

Adenosine triphosphate, See under Metabolism

Age factors

do premature infants require anesthesia for surgery? (EV) [Berry & Gregory], 291

elderly

general or spinal anesthesia in: which is better? (CR) [Chung, Meier, Lautenschlager, Carmichael & Chung], 422

geriatrics

and cerebral vascular and metabolic effects of fentanyl and midazolam (OA) [Baughman, Hoffman, Albrecht & Miletich], 314

infants

preterm

minimum alveolar concentration of isoflurane in (OA) [Le Dez & Lerman], 301

pancuronium and vecuronium kinetics and dynamics and (OA) [Rupp, Castagnoli, Fisher & Miller], 45

See also under Potency, anesthetic

AIDS, See under Complications

Air embolism, See under Embolism

Airway

epiglottis

in young infants (CR) [Blackstock, Adderley & Steward], 97

foreign body

esophageal, unexpected migration of (CR) [Greschner & Devitt], 565

hypopharynx

continuous pH during anesthesia via mask (CR) [Kofke, Fasano, Keamy & Derr], 434

ligneous tracheobronchitis

unusual cause of airway obstruction (CR) [Babcock, Bedford & Berry], 819

obstruction

direct laryngoscopy to relieve, in mediastinal mass (CR) [de Soto], 116

with distal tracheal stenosis, anesthetic management of (CR) [Borland, Reilly & Smith], 132

in ligneous tracheobronchitis (CR) [Babcock, Bedford & Berry], 819

and margin of safety in positioning modern double-lumen endotracheal tubes (OA) [Benumof, Partridge, Salvatierra & Keating], 729

upper

new laryngoscope blade to overcome (LR) [Bainton], 767

in young infants (CR) [Blackstock, Adderley & Steward], 97

pH

continuous pH during anesthesia via mask (CR) [Kofke, Fasano, Keamy & Derr], 434

tracheal-esophageal fistula

with distal tracheal stenosis, anesthetic management of (CR) [Borland, Reilly & Smith], 132

tracheo-bronchial angles in neonates (CO) [Tsuneto, Yamashita & Miyamoto], 151

Akathisia, See under Complications

Alcohol

carmofur

and disulfiram-like reaction after celiac plexus alcohol block (CR) [Noda, Umeda, Mori, Fukunaga & Mizoi], 809

Alfentanil, See under Analgesics; Anesthetics, intravenous; Pharmacokinetics

Algorithm for O₂ saturation, See under Blood

Algorithms, See under Measurement techniques

Alkalosis, See under Acid-base equilibrium

Allergy

anaphylactic reaction

severe, to dextran despite hapten inhibition (CR) [Bernstein, Rossenberg, Pada & Jaffe], 567

to protamine, laboratory test to detect (CO) [Levy], 281

Almitrine bismesylate, *See under* Pharmacology

Alpha adrenergic agonists, *See under* Sympathetic nervous system; Receptors

American Society of Anesthesiologists, *See under* Organizations

Amnesia, *See under* Memory

Analgnesia

epidural

- in high-risk surgical patients (CO) [Clark], 1026
- in high-risk surgical patients (CO) [Day], 1025
- in high-risk surgical patients (CO) [Frumin], 1023
- in high-risk surgical patients (CO) [Glass & Yeager], 1026
- in high-risk surgical patients (CO) [Jenkins], 1024
- in high-risk surgical patients (CO) [Kehlet], 1022

obstetric

- during labor, epidural sufentanil/bupivacaine combinations for (CR) [Phillips], 835

postoperative

- continuous thoracic epidural analgesia for, following thoracotomy (CR) [Logas, El-Baz, El-Ganzouri, Cullen, Staren, Faber & Ivankovich], 787
- epidural sufentanil (OA) [Benlabeled, Ecoffey, Levron, Flaisler & Gross], 948
- on medical-surgical wards, epidural morphine for (CR) [Busch & Stedman], 101
- percutaneous inguinal block for outpatient management of post-herniorrhaphy pain in children (CR) [Hinkle], 411

Analgesics

alfentanil

- muscle rigidity induced by, ketanserin pretreatment reverses (OA) [Weinger, Cline, Smith & Koob], 348

fentanyl

- first pass uptake of, in human lung (OA) [Roerig, Kotrly, Vucins, Ahlf, Dawson & Kampine], 466
- interaction with thiopental (OA) [Kissin, Mason & Bradley], 331

meperidine

- comparative pharmacokinetics of, in humans (EV) [Cousins], 875
- first pass uptake of, in human lung (OA) [Roerig, Kotrly, Vucins, Ahlf, Dawson & Kampine], 466
- pharmacokinetics of, in humans (OA) [Sjöström, Hartvig, Persson & Tamsen], 877
- pharmacokinetics of, in humans (OA) [Sjöström, Tamsen, Persson & Hartvig], 889

morphine

- comparative pharmacokinetics of, in humans (EV) [Cousins], 875
- epidural, for postoperative pain on medical-surgical wards (CR) [Busch & Stedman], 101
- first pass uptake of, in human lung (OA) [Roerig, Kotrly, Vucins, Ahlf, Dawson & Kampine], 466
- interaction with thiopental (OA) [Kissin, Mason & Bradley], 331
- for low-back pain (CR) [Dallas, Lin, Wu & Wolskee], 408
- pharmacokinetics of, in humans (OA) [Sjöström, Hartvig, Persson & Tamsen], 877
- pharmacokinetics of, in humans (OA) [Sjöström, Tamsen, Persson & Hartvig], 889
- for postoperative pain relief following thoracotomy (CR) [Logas, El-Baz, El-Ganzouri, Cullen, Staren, Faber & Ivankovich], 787

narcotics

- epidural, for postoperative pain on medical-surgical wards (CR) [Busch & Stedman], 101

fentanyl

- assay methods for, in serum: gas-liquid chromatography *versus* radioimmunoassay (LR) [Woestenborghs, Stanski, Scott & Heykants], 85
- and bupivacaine, epidural, for obstetric analgesia (CR) [Cohen, Tan, Albright & Halpern], 403

- for extracorporeal shock wave lithotripsy, profound central nervous system depression from (CR) [Wells & Davies], 991
- large doses of, prolongation of QT interval in association with (CO) [Blair, Pruett, Crumrine & Balser], 442

- for low-back pain (CR) [Dallas, Lin, Wu & Wolskee], 408

sufentanil

- bupivacaine combinations for analgesia during labor (CR) [Phillips], 835
- epidural, in children, analgesia and ventilatory response to CO₂ following (OA) [Benlabeled, Ecoffey, Levron, Flaisler & Gross], 948
- large doses of, prolongation of QT interval in association with (CO) [Blair, Pruett, Crumrine & Balser], 442

Anaphylaxis, *See under* Allergy, Complications

Anatomy

shoulder

- arthroscopy, pulse oximetry during (CO) [Gibbs, Handal & Nentwig], 150

tracheobronchial tree

- and positioning modern double-lumen endotracheal tubes (OA) [Benumof, Partridge, Salvatierra & Keating], 729

Anesthesia

cardiac

- and cardiopulmonary bypass discontinuation, possibility of A-V shunting upon (CR) [Pauca & Meredith], 91

cardiovascular

- pharmacologic EEG suppression during (OA) [Woodcock, Murkin, Farrar, Tweed, Guiraudon & McKenzie], 218

closed circuit

- rapid calculation of isoflurane unit doses for (CO) [Lee], 283

depth

- and EEG spectral edge frequency changes in laryngoscopy and intubation (CR) [Rampil & Matteo], 139

gas exchange

- during thoracic surgical procedures (CR) [Howland, Carlon, Goldiner, Rooney, Concepcion, Bains & McCormack], 1009

general

- intraocular pressure changes during muscular hyperactivity after (CO) [Grover, Mahajan & Sharma], 604
- intraocular pressure changes during muscular hyperactivity after (CO) [Williams], 604
- or spinal anesthesia: which is better in elderly (CR) [Chung, Meier, Lautenschlager, Carmichael & Chung], 422

high-frequency jet ventilation

- during thoracic surgical procedures (CR) [Howland, Carlon, Goldiner, Rooney, Concepcion, Bains & McCormack], 1009
- and hypertension, effect of clonidine on perioperative hemodynamics and isoflurane requirements (OA) [Chignone, Calvillo & Quintin], 3

intravenous infusion

- Plasma Drug Efflux and (OA) [Crankshaw, Boyd & Bjorksten], 32

neurosurgical

- for craniotomy for tumor, in bronchopleural fistula (CR) [Gutstein & Koblin], 804
- and effect of scalp infiltration on hemodynamic response to craniotomy under general anesthesia (CR) [Hillmar, Rung, Thompson & Davis], 1001
- succinylcholine-induced hyperkalemia during (CR) [Frankville & Drummond], 264
- vecuronium in, effect on intracranial pressure and hemodynamics (CR) [Stirt, Maggio, Haworth, Minton & Bedford], 570

obstetric

- central venous pressure monitoring during (CO) [Robinson, Bungein & Albin], 147

cesarean section

- central venous pressure monitoring during (CO) [Rupp], 146
- effects of maternal hypotension during epidural anesthesia for (CR) [Brizgys, Dailey, Shnider, Kotelko & Levinson], 782
- epidural fentanyl/bupivacaine mixtures for (CR) [Cohen, Tan, Albright & Halpern], 403
- halothane effect on asphyxiated fetal lamb (OA) [Cheek, Hughes, Dailey, Field, Pytko, Rosen, Parer & Shnider], 361

in vitro fertilization

- success of, effect of nitrous oxide on (OA) [Rosen, Roizen, Eger, Glass, Martin, Dandekar, Dailey & Litt], 42
- magnesium interaction with succinylcholine-vecuronium sequence in eclampsia (CR) [Baraka & Yazigi], 806
- midazolam in (CO) [Seidman & Marx], 443
- modifying of fetal monitor during, may be hazardous (CO) [Sand], 448
- no evidence that anesthesiologists enhance care of parturient (CO) [Levinson, Shnider & Gibbs], 152
- no evidence that anesthesiologists enhance care of parturient (CO) [Singer], 152
- sodium bicarbonate buffers gastric acid during surgery in (CR), 274
- for vaginal delivery in patient with idiopathic hypertrophic subaortic stenosis (CR) [Minnich, Quirk & Clark], 590
- vecuronium and prolonged neuromuscular blockade in postpartum patients (CR) [Camp, Tessem, Adenwala & Joyce], 100b

outpatient

- airway heating reduces recovery time (cost) in (CR) [Conahan, Williams, Apfelbaum & Lecky], 128
- effects of eliminating nitrous oxide in (CR) [Melnick & Johnson], 982
- epinephrine prolongs lidocaine spinal in (CR) [Moore, Chadwick & Ready], 416
- pediatric, glucose concentrations for routine intravenous infusion in (CR) [Welborn, Hannallah, McGill, Ruttimann & Hicks], 427
- propofol versus thiopental for (CR) [Johnston, Noseworthy, Anderson, Konopad & Grace], 431
- reaction of preoperative metoclopramide (CR) [Caldwell, Rains & McKitterick], 854

pediatric

- Arnold-Chiari malformation type I appearing after tonsillectomy (CR) [Dong], 120
- in atlanto-axial subluxation and trisomy-21 (CR) [Williams, Somerville, Miner & Reilly], 253
- bronchial intubation: tube bevel and side of intubation (CO) [Baraka, Akel & Muallem], 869
- burn, erosion, and "sun" tan with use of pulse oximetry in (CR) [Miyasaka & Ohata], 1008
- cardiac function and, pulsed Doppler and two-dimensional echocardiography during (OA) [Murray, Vandewalker, Matherne & Mahoney], 211
- cardiovascular effect of isoflurane in lambs in (OA) [Brett, Teitel, Heymann & Rudolph], 60
- caudal, and blood flows in infants (OA) [Payen, Ecoffey, Carli & Dubousset], 681
- caudal and ilioinguinal/iliohypogastric nerve blocks in (CO) [Fell, Derrington & Wandless], 1020
- caudal and ilioinguinal/iliohypogastric nerve blocks in (CO) [Hannallah, Broadman, Belman, Abramowitz & Epstein], 1021
- continuous epidural infusion of bupivacaine for postoperative pain relief in (CR) [Desparmet, Meistelman, Barre & Saint-Maurice], 108
- for craniospinal radiotherapy (CR) [Glauber & Audenaert], 801

- effect of halothane on critical levels of oxygen transport in newborn lamb (OA) [Hershenson, O'Rourke, Schena & Crone], 174

- effect of halothane on steady-state levels of high-energy phosphates in (LR) [McAuliffe & Hickey], 231

- epidural, in Duchenne muscular dystrophy, effects of bupivacaine during (CR) [Murat, Esteve, Montay, Delleur, Gaudiche & Saint-Maurice], 249

- epidural sufentanil (OA) [Benlabeled, Ecoffey, Levron, Flaisler & Gross], 948

infant diseases

- and perianesthetic intracranial hemorrhage in preterm neonates (CR) [Friesen, Honda & Thieme], 814
- intravenous atropine reduces lower esophageal sphincter pressure in (CR) [Opie, Chaye & Steward], 989
- management of tracheal esophageal fistula with distal tracheal stenosis (CR) [Borland, Reilly & Smith], 132
- metabolic responses to tourniquet release in (CR) [Brustowicz, Moncorge & Koka], 792
- modified Pitot tube for measurement of tidal volume in (LR) [Wolf & Volgyesi], 775
- outpatient, glucose concentrations for routine intravenous infusion in (CR) [Welborn, Hannallah, McGill, Ruttimann & Hicks], 427
- percutaneous inguinal block for outpatient management of postherniorrhaphy pain in children (CR) [Hinkle], 411
- and perianesthetic intracranial hemorrhage in preterm neonates (CR) [Friesen, Honda & Thieme], 814
- perioperative management of conjoined twins (MI) [Diaz & Furman], 965
- pharmacokinetics of alfentanil (OA) [Goresky, Koren, Sabourin, Sale & Strunin], 654

premature infants

- and perianesthetic intracranial hemorrhage in preterm neonates (CR) [Friesen, Honda & Thieme], 814
- problems associated with endotracheal tubes with monitoring lumens in (CO) [Miller], 1018
- problems associated with endotracheal tubes with monitoring lumens in (CO) [Wiegert], 1019
- sacral intervertebral epidural block in (CR) [Busoni & Sartil], 993
- in severe hyperinsulinism treated by pancreatectomy (CR) [Yamashita & Tsuneto], 985
- thiopental requirements for induction of anesthesia in (CR) [Jonmarker, Westrin, Larsson & Werner], 104
- and tracheo-bronchial angles in neonates (CO) [Tsuneto, Yamashita & Miyamoto], 151

requirements

MAC

- of isoflurane in preterm neonates (OA) [Le Dez & Lerman], 301

thoracic

- and arterial oxygenation during one-lung ventilation (OA) [Benumof, Augustine & Gibbons], 910
- for craniotomy for tumor, in bronchopleural fistula (CR) [Gutstein & Koblin], 804
- intraoperative re-expansion pulmonary edema during (CR) [Desiderio, Meister & Bedford], 821
- and sequential one-lung ventilation for bilateral bullectomy (CR) [Benumof], 268
- during thoracic surgical procedures (CR) [Howland, Carlon, Goldiner, Rooney, Concepcion, Bains & McCormack], 1009
- and ventilation/perfusion lung scans to predict oxygenation during one-lung anesthesia (CR) [Hurford, Kolker & Strauss], 841

Anesthesia complications, *See under Complications*

Anesthesia machine, *See under Equipment*

Anesthesiologists

- no evidence that they enhance care of parturient (CO) [Levinson, Shnider & Gibbs], 152
- no evidence that they enhance care of parturient (CO) [Singer], 152

Anesthetic equipment, See under Equipment**Anesthetic ointment, See under Equipment****Anesthetic potency, See under Potency****Anesthetic requirements, See under Anesthesia****Anesthetic techniques****balanced**

- or spinal anesthesia: which is better in elderly (CR) [Chung, Meier, Lautenschlager, Carmichael & Chung], 422

Bier block

- apnea and syncope following, in same patient (CO) [Woo & McQueen], 281

caudal

- in children undergoing orchidopexy (CO) [Fell, Derrington & Wandless], 1020
- in children undergoing orchidopexy (CO) [Hannallah, Broadman, Belman, Abramowitz & Epstein], 1021
- pulsed Doppler ascending aortic, carotid, brachial and femoral artery blood flows during (OA) [Payen, Ecoffey, Carli & Dubousset], 681

celiac plexus

- another aspect of (CO) [Lu, Frost & Goldiner], 1017
- disulfiram-like reaction associated with carmofofur (CR) [Noda, Umeda, Mori, Fukunaga & Mizoi], 809

continuous infusion

- of midazolam for sedation following cardiac surgery (CR) [Westphal, Cheng, White, Sladen, Rosenthal & Sung], 257

endobronchial intubation

- in children: tube bevel and side of intubation (CO) [Baraka, Akel & Muallem], 869
- selective blind, in children and adults (CR) [Kubota, Kubota, Toyoda, Ishida, Asada & Matsuura], 587

epidural

- accidental injection of methohexital in (CR) [Wells, Davies & Wagner], 846
- in children with muscular dystrophy, effects of bupivacaine during (CR) [Murat, Esteve, Montay, Delleur, Gaudiche & Saint-Maurice], 249
- comparative pharmacokinetics of opioids using, in humans (EV) [Cousins], 875
- in high-risk surgical patients (CO) [Clark], 1026
- in high-risk surgical patients (CO) [Day], 1025
- in high-risk surgical patients (CO) [Frumin], 1023
- in high-risk surgical patients (CO) [Glass & Yeager], 1026
- in high-risk surgical patients (CO) [Jenkins], 1024
- in high-risk surgical patients (CO) [Kehlet], 1022
- morphine and methylprednisolone in, for low-back pain (CR) [Dallas, Lin, Wu & Wolske], 408
- morphine in, for postoperative pain on medical-surgical wards (CR) [Busch & Stedman], 101
- narcotics in, for extracorporeal shock wave lithotripsy, profound central nervous system depression from (CR) [Wells & Davies], 991
- pharmacokinetics of morphine and meperidine in, in humans (OA) [Sjöström, Hartvig, Persson & Tamsen], 877
- for postoperative pain relief following thoracotomy (CR) [Logas, El-Baz, El-Ganzouri, Cullen, Staren, Faber & Ivankovich], 787
- for postoperative pain relief in children (CR) [Desparmet, Meistelman, Barre & Saint-Maurice], 108
- pulsed Doppler ascending aortic, carotid, brachial and femoral

- artery blood flows during (OA) [Payen, Ecoffey, Carli & Dubousset], 681

sacral intervertebral

- block with (CR) [Busoni & Sarti], 993
- sufentanil, in children, analgesia and ventilatory response to CO₂ following (OA) [Benlabeled, Ecoffey, Levron, Flaisler & Gross], 948
- sufentil/bupivacaine combinations in, for analgesia during labor (CR) [Phillips], 835
- for vaginal delivery, every dose in, can be a test dose (CR) [Van Zundert, Vaes, Soetens, De Vel, Van Der Aa, Van Der Donck, Meeuwis & DeWolf], 436
- for vaginal delivery in patient with idiopathic hypertrophic sub-aortic stenosis (CR) [Minnich, Quirk & Clark], 590

epidural morphine

- chronic, and preservative-induced injury (CR) [DuPen, Ramsey & Chin], 987

epidural narcotic

- fentanyl/bupivacaine mixtures in, for obstetric analgesia (CR) [Cohen, Tan, Albright & Halpern], 403

fiberoptic bronchoscopy

- another use of (CO) [Stone], 608
- and positioning modern double-lumen endotracheal tubes (OA) [Benumof, Partridge, Salvatierra & Keating], 729

hypotension, induced

- nifedipine, cardiovascular effects of (OA) [Schulte-Sasse & Tar-now], 492

nitroprusside

- reaction with secondary amines, carcinogenicity of N-nitrosoamines derived from (CO) [Klopman, Frierson & Dauchot], 279

ilioinguinal/iliohypogastric

- in children undergoing orchidopexy (CO) [Fell, Derrington & Wandless], 1020
- in children undergoing orchidopexy (CO) [Hannallah, Broadman, Belman, Abramowitz & Epstein], 1021

induction

- in comparison of inductions of halothane oxygen anesthesia (CR) [Ruffe & Snider], 584

infiltration

- bupivacaine scalp infiltration in, effect of, on hemodynamic response to craniotomy (CR) [Hillmar, Rung, Thompson & Davis], 1001
- ring block of penis for post-circumcision analgesia (CR) [Broadman, Hannallah, Belman, Elder, Ruttimann & Epstein], 399

infusion

- vecuronium in: effect of anesthetic agents on (OA) [Cannon, Fahey, Castagnoli, Furuta, Canfell, Sharma & Miller], 503

inguinal

- percutaneous inguinal block for outpatient management of post-herniorrhaphy pain in children (CR) [Hinkle], 411

inhalation

- in comparison of inductions of halothane oxygen anesthesia (CR) [Ruffe & Snider], 584
- vecuronium in: effect of anesthetic agents on (OA) [Cannon, Fahey, Castagnoli, Furuta, Canfell, Sharma & Miller], 503

intrapleural

- with bupivacaine—dynamic and kinetic evaluation (CR) [Seltzer, Larijani, Goldberg & Marr], 798
- infusion of bupivacaine for analgesia after thoracotomy (CR) [Rosenberg, Scheinin, Lepäntalo & Lindfors], 811

intrathecal

comparative pharmacokinetics of opioids using, in humans (EV) [Cousins], 875

pharmacokinetics of morphine and meperidine in, in humans (OA) [Sjöström, Tamsen, Persson & Hartvig], 889

one-lung ventilation

halothane and isoflurane only slightly impair arterial oxygenation during, in thoracotomy (OA) [Benumof, Augustine & Gibbons], 910

regional

accidental injection of methohexital in (CR) [Wells, Davies & Wagner], 846

bupivacaine scalp infiltration in, effect of, on hemodynamic response to craniotomy (CR) [Hillmar, Rung, Thompson & Davis], 1001

with bupivacaine—dynamic and kinetic evaluation (CR) [Seltzer, Larijani, Goldberg & Marr], 798

in child with epidermolysis bullosa (CR) [Kaplan & Strauch], 262

disulfiram-like reaction associated with carmofer (CR) [Noda, Umeda, Mori, Fukunaga & Mizoi], 809

infusion of bupivacaine for analgesia after thoracotomy (CR) [Rosenberg, Scheinin, Lepäntalo & Lindfors], 811

lumbar epidural

for cesarean section, maternal hypotension during, neonatal effects of (CR) [Brizgys, Dailey, Shnider, Kotenko & Levinson], 782

narcotics in, for extracorporeal shock wave lithotripsy, profound central nervous system depression from (CR) [Wells & Davies], 991

percutaneous inguinal block for outpatient management of post-herniorrhaphy pain in children (CR) [Hinkle], 411

for relief of post-circumcision pain (CR) [Tree-trakarn, Pirayavaraporn & Lertakymanee], 395

sacral intervertebral epidural block (CR) [Busoni & Sarti], 993

sympathetic blockade

in prevention of postherpetic neuralgia (CO) [Bauman], 441

in prevention of postherpetic neuralgia (CO) [Yanagida & Suwa], 441

spinal

assessment of level of anesthesia in, using neuromuscular stimulator (CR) [Meyer & McCune], 125

or general: which is better in elderly? (CR) [Chung, Meier, Lautenschlager, Carmichael & Chung], 422

with lidocaine, epinephrine prolongs (CR) [Moore, Chadwick & Ready], 416

sterile draping technique for (CO) [Ellermeyer], 150

and use-dependent block in mammalian axons (OA) [Fink & Cairns], 477

stellate ganglion block

normal saline as placebo (CR) [Haddox & Kettler], 832

subarachnoid block

tetracaine in, dose-response relationship of clonidine in (OA) [Mensink, Kozody, Kehler & Wade], 717

topical

for relief of post-circumcision pain (CR) [Tree-trakarn, Pirayavaraporn & Lertakymanee], 395

tracheal intubation

and positioning modern double-lumen endotracheal tubes (OA) [Benumof, Partridge, Salvatierra & Keating], 729

Anesthetics

degradation

and stability of sevoflurane (LR) [Strum, Johnson & Eger], 779

gases

nitrous oxide

50%, in oxygen, depression of swallowing reflex during analge-

sia produced by (CR) [Nishino, Takizawa, Yokokawa & Hiraga], 995

cerebral blood volume is increased in dogs during, in dogs (OA) [Archer, Labrecque, Tyler, Meyer & Trop], 642

effect of, on *in vitro* fertilization success (OA) [Rosen, Roizen, Eger, Glass, Martin, Dandekar, Dailey & Litt], 42

effects of eliminating, in outpatient anesthesia (CR) [Melnick & Johnson], 982

effects of, on coronary perfusion after coronary air embolism (OA) [Tuman, McCarthy, Spiess, Overfield & Ivankovich], 952

fentanyl, core temperature changes during (CR) [Sessler, Rubinstein & Eger], 137

and fentanyl do not induce myocardial ischemia in ischemic heart disease (OA) [Cahalan, Prakash, Rulf, Cahalan, Mayala, Lurz, Rosseel, Lachitjaran, Siphanto, Gussenhoven & Roelandt], 925

flammability of endotracheal tubes in oxygen and (LR) [Wolf & Simpson], 236

prolonged hypocapnia does not alter rate of cerebrospinal fluid production during (OA) [Artru & Hornbein], 66

teratogenic and reproductive effects of, in Sprague-Dawley rats (OA) [Fujinaga, Baden, Yhap & Mazze], 960

general

depression of myocardial contractility by (RA) [Rusy & Komai], 745

inhalation

isoflurane

and verapamil, causes regional left-ventricular dyssynchrony in dog (OA) [Videcoq, Arvieux, Ramsay, Foëx, Stone, Ryder & Jones], 635

intravenous

addiction

to ketamine (CO) [Kamaya & Krishna], 861

alfentanil

muscle rigidity induced by, ketanserin pretreatment reverses (OA) [Weinger, Cline, Smith & Koob], 348

pharmacokinetics of, in children (OA) [Goresky, Koren, Sabourin, Sale & Strunin], 654

barbiturates

constant blood concentration of, Plasma Drug Efflux and (OA) [Crankshaw, Boyd & Bjorksten], 32

diazepam

exacerbated spinal neurologic deficit with, in cervical spondylosis (CR) [Miller, Crosby & Sundaram], 844

droperidol

effects on sympathetic activity and baroreflex control of heart rate in humans (OA) [Balagny, Gauzit, Marty, Couderc, Levron & Desmonts], 473

exacerbated spinal neurologic deficit with, in cervical spondylosis (CR) [Miller, Crosby & Sundaram], 844

etomidate

induction of anesthesia with, effect of second dose of succinylcholine on heart rate and rhythm following (CR) [Abdul-Rasool, Sears & Katz], 795

and natural killer cell activity during coronary artery bypass grafting (OA) [Tønnesen, Brinkløv, Christensen, Olesen & Madsen], 526

fentanyl

antagonism of neuromuscular blockade during, edrophonium/atropine mixture for (CR) [Urquhart, Ramsey, Royster, Morell & Gerr], 561

assay methods for, in serum: gas-liquid chromatography versus radioimmunoassay (LR) [Woestenborghs, Stanski, Scott & Heykants], 85

- cerebral vascular and metabolic effects of, in young and aged rats (OA) [Baughman, Hoffman, Albrecht & Miletich], 314
- continuous infusion of vecuronium and (OA) [Cannon, Fahey, Castagnoli, Furuta, Canfell, Sharma & Miller], 503
- effects of, on arterial and venous concentrations of propranolol in dog (OA) [Gordon, Wood, Koshakji, Wilkinson, Dupont & Wood], 225
- effects of, on visual evoked potentials in humans (CR) [Chi, McCoy & Field], 827
- first pass uptake of, in human lung (OA) [Roerig, Kotrly, Vucins, Ahlf, Dawson & Kampine], 466
- and natural killer cell activity during coronary artery bypass grafting (OA) [Tønnesen, Brinkløv, Christensen, Olesen & Madsen], 526
- N₂O, core temperature changes during (CR) [Sessler, Rubinstein & Eger], 137
- and nitrous oxide do not induce myocardial ischemia in ischemic heart disease (OA) [Cahalan, Prakash, Rulf, Cahalan, Mayala, Lurz, Rosseel, Lachitjaran, Siphanto, Gussenhoven & Roelandt], 925
- in study of calcium entry blockers and α -receptor responsiveness (OA) [Massagee, McIntyre, Kates, Reves & Bai], 485
- infusions**
- and enflurane sparing effect of sufentanil in dogs (OA) [Hall, Murphy & Hug], 518
- ketamine**
- addiction (CO) [Kamaya & Krishna], 861
- meperidine**
- first pass uptake of, in human lung (OA) [Roerig, Kotrly, Vucins, Ahlf, Dawson & Kampine], 466
- methohexital**
- closed-loop feedback control of, by quantitative EEG analysis in humans (OA) [Schwilden, Schüttler & Stoessel], 341
- constant blood concentration of, Plasma Drug Efflux and (OA) [Crankshaw, Boyd & Bjorksten], 32
- epidural, analgesic injection of (CR) [Wells, Davies & Wagner], 846
- midazolam**
- following cardiac surgery (CR) [Westphal, Cheng, White, Sladen, Rosenthal & Sung], 257
- cerebral vascular and metabolic effects of, in young and aged rats (OA) [Baughman, Hoffman, Albrecht & Miletich], 314
- induction of anesthesia with, effect of second dose of succinylcholine on heart rate and rhythm following (CR) [Abdul-Rasool, Sears & Katz], 795
- and natural killer cell activity during coronary artery bypass grafting (OA) [Tønnesen, Brinkløv, Christensen, Olesen & Madsen], 526
- in obstetric anesthesia (CO) [Seidman & Marx], 443
- pentobarbital and thiopental anesthetic interactions with (OA) [Kissin, Mason & Bradley], 26
- morphine**
- first pass uptake of, in human lung (OA) [Roerig, Kotrly, Vucins, Ahlf, Dawson & Kampine], 466
- narcotic**
- and enflurane sparing effect of sufentanil in dogs (OA) [Hall, Murphy & Hug], 518
- pentobarbital**
- anesthetics interactions with midazolam (OA) [Kissin, Mason & Bradley], 26
- effects of, on transpulmonary passage of venous air emboli in dogs (OA) [Yahagi & Furuya], 905
- propofol**
- versus thiopental for outpatient anesthesia (CR) [Johnston, Noseworthy, Anderson, Konopad & Grace], 431
- sufentanil**
- and clonidine, and hemodynamics in coronary bypass surgery (OA) [Flacke, Bloor, Flacke, Wong, Dazza, Stead & Laks], 11
- enflurane sparing effect of, in dogs (OA) [Hall, Murphy & Hug], 518
- without EEG seizure activity, myoclonus following (CR) [Bowdle], 593
- thiopental**
- anesthetics interactions with midazolam (OA) [Kissin, Mason & Bradley], 26
- constant blood concentration of, Plasma Drug Efflux and (OA) [Crankshaw, Boyd & Bjorksten], 32
- induction of anesthesia with, effect of second dose of succinylcholine on heart rate and rhythm following (CR) [Abdul-Rasool, Sears & Katz], 795
- morphine and fentanyl hypnotic interactions with (OA) [Kissin, Mason & Bradley], 331
- pharmacologic EEG suppression during (OA) [Woodcock, Murkin, Farrar, Tweed, Guiraudon & McKenzie], 218
- reduction of tonic ribcage muscle activity with (OA) [Drummond], 695
- requirements for induction of anesthesia in children (CR) [Jonmarker, Westrin, Larsson & Werner], 104
- versus propofol for outpatient anesthesia (CR) [Johnston, Noseworthy, Anderson, Konopad & Grace], 431
- tolerance**
- to ketamine (CO) [Kamaya & Krishna], 861
- local**
- bupivacaine**
- continuous epidural infusion of, for postoperative pain relief in children (CR) [Desparmet, Meistelman, Barre & Saint-Maurice], 108
- and fentanyl, epidural, for obstetric analgesia (CR) [Cohen, Tan, Albright & Halpern], 403
- intrapleural (CR) [Seltzer, Larijani, Goldberg & Marr], 798
- intrapleural, for analgesia after thoracotomy (CR) [Rosenberg, Scheinin, Lepäntalo & Lindfors], 811
- for postoperative pain relief following thoracotomy (CR) [Logas, El-Baz, El-Ganzouri, Cullen, Staren, Faber & Ivankovich], 787
- scalp infiltration, effect of, on hemodynamic response to craniotomy under general anesthesia (CR) [Hillmar, Rung, Thompson & Davis], 1001
- sufentanil combinations for analgesia during labor (CR) [Phillips], 835
- clearance**
- influence of right-to-left cardiac shunt on (OA) [Bokesch, Castaneda, Ziemer & Wilson], 739
- lidocaine**
- influence of right-to-left cardiac shunt on (OA) [Bokesch, Castaneda, Ziemer & Wilson], 739
- in use-dependent block in mammalian axons (OA) [Fink & Cairns], 477
- mepivacaine**
- in prevention of postherpetic neuralgia (CO) [Bauman], 441
- in prevention of postherpetic neuralgia (CO) [Yanagida & Suwa], 441
- procaine**
- in ultralong-lasting nerve block, with thiethyldecyl ammonium, neurotoxicity in (OA) [Lipfert, Seitz & Arndt], 896
- tetracaine**
- spinal anesthesia, dose-response relationship of clonidine in (OA) [Mensink, Kozody, Kehler & Wade], 717

tetraethylammonium derivatives

with local anesthetic, in ultralong-lasting nerve block, neurotoxicity in (OA) [Lipfert, Seitz & Arndt], 896

volatile

costs

of low-flow anesthesia (CO) [Matjasko], 863

elimination

new techniques, new opportunities, old problems (EV) [Smith & Chance], 157

enflurane

continuous infusion of vecuronium and (OA) [Cannon, Fahey, Castagnoli, Furuta, Canfell, Sharma & Miller], 503

effect of pH on calcium uptake in presence of (LR) [Casella, Suite, Fisher & Blanck], 386

impaired myocardial conduction in patients receiving diltiazem therapy during (CR) [Hantler, Wilton, Learned, Hill & Knight], 94

increase oxygen consumption in isolated hepatocytes from phenobarbital-treated rats (OA) [Becker, Miletich & Albrecht], 185

isoflurane compared to, decreases frequency of cerebral ischemia during carotid endarterectomy (OA) [Michenfelder, Sundt, Fode & Sharbrough], 336

opisthotonus during, in mice (LR) [Komatsu & Ogli], 771

sparing effect of sufentanil in dogs (OA) [Hall, Murphy & Hug], 518

and verapamil, pharmacokinetics and autonomic nervous system in interaction between (OA) [Chelly, Hysing, Hill, Abernethy, Diewati, Doursout & Merin], 320

halothane

actions of, and ischemia related arrhythmias (OA) [Turner, Bosnjak & Kampine], 619

cause or cure for arrhythmias? (EV) [Atlee], 617

and critical levels of oxygen transport in anesthetized newborn lamb (OA) [Hershenson, O'Rourke, Schena & Crone], 174
following cryogenic brain injury in rabbits, intracranial pressure effects of (OA) [Scheller, Todd, Drummond & Zornow], 507

effect of, on asphyxiated fetal lamb (OA) [Cheek, Hughes, Dailey, Field, Pytko, Rosen, Parer & Shnider], 361

effect of, on cardiac function in infants and small children, pulsed Doppler and two-dimensional echocardiography and (OA) [Murray, Vandewalker, Matherne & Mahoney], 211

effect of pH on calcium uptake in presence of (LR) [Casella, Suite, Fisher & Blanck], 386

effects of, on arterial and venous concentrations of propranolol in dog (OA) [Gordon, Wood, Koshakji, Wilkinson, Dupont & Wood], 225

effects of, on coronary vascular resistance and collateral myocardial blood flow: capacity to induce coronary steal (OA) [Cason, Verrier, London, Mangano & Hickey], 665

effects of, on transpulmonary passage of venous air emboli in dogs (OA) [Yahagi & Furuya], 905

effects of, on upper respiratory tract infections in children (OA) [Tait & Knight], 930

and effects of succinylcholine on mouth opening (OA) [Van Der Spek, Fang, Ashton-Miller, Stohler, Carlson & Schork], 459
effects on human beta-adrenergic receptor of lymphocyte membranes (LR) [Marty, Nivoche, Nimier, Rocchiccioli, Luscombe, Henzel, Loiseau & Desmonts], 974

hepatic oxygen supply during, in guinea pigs (OA) [Hursh, Gelman & Bradley], 701

increase oxygen consumption in isolated hepatocytes from phenobarbital-treated rats (OA) [Becker, Miletich & Albrecht], 185

inhibits calcium accumulation following myocardial ischemia and calcium paradox in guinea pig hearts (OA) [Hoka, Bosnjak & Kampine], 197

isoflurane compared to, decreases frequency of cerebral ischemia during carotid endarterectomy (OA) [Michenfelder, Sundt, Fode & Sharbrough], 336

MAC in rats, clonidine reduces (CO) [Maze, Birch & Vickery], 868

mechanism of negative inotropic action of (OA) [Murray, Blanck, Rogers & Jacobus], 649

metabolism in cirrhotic rats (OA) [Baden, Serra, Fujinaga & Mazze], 660

/O₂ anesthesia, core temperature changes during (CR) [Sessler, Rubinstein & Eger], 137

only slightly impairs arterial oxygenation during one-lung ventilation for thoracotomy (OA) [Benumof, Augustine & Gibbons], 910

opisthotonus during, in mice (LR) [Komatsu & Ogli], 771

potentiates citrate toxicity in dogs (OA) [Coté], 676

prolonged hypocapnia does not alter rate of cerebrospinal fluid production during (OA) [Artru & Hornbein], 66

rapid and conventional inhalation inductions of, compared (CR) [Ruffe & Snider], 584

repeated, hepatic effects of, in hypoxic rat model (OA) [Plummer, Hall, Jenner & Cousins], 355

and serotonin metabolism at low pulmonary flow (OA) [Watkins & Rannels], 916

stability of, in soda lime (LR) [Strum, Johnson & Eger], 779

and steady-state levels of high-energy phosphates in neonatal heart (LR) [McAuliffe & Hickey], 231

in study of cardiovascular effects of nifedipine or verapamil (OA) [Schulte-Sasse & Tarnow], 492

uptake and elimination, *in vivo* study of, in rat brain with fluorine nuclear magnetic resonance spectroscopy (OA) [Litt, González-Méndez, James, Sessler, Mills, Chew, Moseley, Pereira, Severinghaus & Hamilton], 161

and verapamil, pharmacokinetics and autonomic nervous system in interaction between (OA) [Chelly, Hysing, Hill, Abernethy, Diewati, Doursout & Merin], 320

without succinylcholine, acute rhabdomyolysis following (CR) [Rubiano, Chang, Carroll, Sonbolian & Larson], 856

isoflurane

antagonism of neuromuscular blockade during, edrophonium/atropine mixture for (CR) [Urquhart, Ramsey, Royster, Morell & Gerr], 561

cardiovascular effects of, in lambs (OA) [Brett, Teitel, Heymann & Rudolph], 60

cerebral blood volume is increased in dogs during, in dogs (OA) [Archer, Labrecque, Tyler, Meyer & Trop], 642

and clonidine, and hemodynamics in: coronary bypass surgery (OA) [Flacke, Bloor, Flacke, Wong, Dazza, Stead & Laks], 11

compared to enflurane and halothane, in decreasing frequency of cerebral ischemia during carotid endarterectomy (OA) [Michenfelder, Sundt, Fode & Sharbrough], 336

continuous infusion of vecuronium and (OA) [Cannon, Fahey, Castagnoli, Furuta, Canfell, Sharma & Miller], 503

following cryogenic brain injury in rabbits, intracranial pressure effects of (OA) [Scheller, Todd, Drummond & Zornow], 507

dogs anesthetized with, detrimental effect of lidocaine on cerebral metabolism in (OA) [Milde & Milde], 180

effect of, on cardiac function in infants and small children, pulsed Doppler and two-dimensional echocardiography and (OA) [Murray, Vandewalker, Matherne & Mahoney], 211

- effect of, on *in vitro* fertilization success (OA) [Rosen, Roizen, Eger, Glass, Martin, Dandekar, Dailey & Litt], 42
- effect of pH on calcium uptake in presence of (LR) [Casella, Suite, Fisher & Blanck], 386
- effects of, on coronary vascular resistance and collateral myocardial blood flow: capacity to induce coronary steal (OA) [Cason, Verrier, London, Mangano & Hickey], 665
- hemodynamic effects of UL-FS 49 and propranolol in dogs anesthetized with (OA) [Riley, Gross, Kampine & Warltier], 707
- hepatic necrosis and death following (CR) [Carrigan & Straughen], 581
- hepatic oxygen supply during, in guinea pigs (OA) [Hursh, Gelman & Bradley], 701
- increase oxygen consumption in isolated hepatocytes from phenobarbital-treated rats (OA) [Becker, Miletich & Albrecht], 185
- is it dangerous for patient with coronary artery disease? (CO) [Abramowitz], 286
- is it dangerous for patient with coronary artery disease? (CO) [Becker], 287
- is it dangerous for patient with coronary artery disease? (CO) [Hamilton], 286
- is it dangerous for patient with coronary artery disease? (CO) [Merlin], 284
- minimum alveolar concentration of, in preterm neonates (OA) [Le Dez & Lerman], 301
- only slightly impairs arterial oxygenation during one-lung ventilation for thoracotomy (OA) [Benumof, Augustine & Gibbons], 910
- opisthotonus during, in mice (LR) [Komatsu & Ogli], 771
- pharmacologic EEG suppression during (OA) [Woodcock, Murkin, Farrar, Tweed, Guiraudon & McKenzie], 218
- requirements, effect of clonidine on perioperative hemodynamics and (OA) [Ghignone, Calvillo & Quintin], 3
- stability of, in soda lime (LR) [Strum, Johnson & Eger], 779
- in suppression of neostigmine-induced fasciculations (OA) [Baker & Stanec], 942
- teratogenic and reproductive effects of, in Sprague-Dawley rats (OA) [Fujinaga, Baden, Yhap & Mazze], 960
- unit doses, rapid calculation of, for closed-circuit anesthesia (CO) [Lee], 283
- and verapamil, pharmacokinetics and autonomic nervous system in interaction between (OA) [Chelly, Hysing, Hill, Abernethy, Diewati, Doursout & Merlin], 320
- lidocaine**
- detrimental effect of, on cerebral metabolism in dogs anesthetized with isoflurane (OA) [Milde & Milde], 180
- low flow**
- economic impact of (CO) [Matjasko], 863
- sevoflurane**
- stability of, in soda lime (LR) [Strum, Johnson & Eger], 779
- trace concentrations**
- associated with keyed filling devices (CO) [Williams, Dicks & Benson], 610
- and intraocular pressure changes during muscular hyperactivity after general anesthesia (CO) [Grover, Mahajan & Sharma], 604
- uptake**
- new techniques, new opportunities, old problems (EV) [Smith & Chance], 157
- Anorexia nervosa, See under Complications**
- Antacids, See under Gastrointestinal tract**
- Antagonists**
- beta adrenergic receptors**
- propranolol**
- and UL-FS 49, hemodynamic effects of, in isoflurane-anesthetized dogs (OA) [Riley, Gross, Kampine & Warltier], 707
- neuromuscular**
- neostigmine**
- fasciculations produced by, suppression of (OA) [Baker & Stanec], 942
- neuromuscular relaxants**
- edrophonium**
- atropine mixture, for antagonism of neuromuscular blockade, heart rate and rhythm following (CR) [Urquhart, Ramsey, Royster, Morell & Gerr], 561
- serotonergic**
- ketanserin**
- pretreatment reverses alfentanil-induced muscle rigidity (OA) [Weinger, Cline, Smith & Koob], 348
- Antidiuretic hormones, See under Hormones**
- Antihistamine, See under Premedication**
- Anxiety, See under Psychologic responses**
- Apnea, See under Complications**
- Arnold-Chiari malformation, See under Complications**
- Arrhythmias, See under Heart**
- Arterial and venous blood sampling, See under Pharmacokinetics**
- Arteries**
- aberrant**
- radial, inadvertent cannulation of (CO) [Westover], 610
- coronary**
- canine, isoflurane causes inhibition of contractile responses of (OA) [Blaise, Sill, Nugent, Van Dyke & Vanhoutte], 513
- disease of, is isoflurane dangerous for patient with? (CO) [Abramowitz], 286
- disease of, is isoflurane dangerous for patient with? (CO) [Becker], 287
- disease of, is isoflurane dangerous for patient with? (CO) [Hamilton], 286
- disease of, is isoflurane dangerous for patient with? (CO) [Merlin], 284
- steal**
- isoflurane, halothane, and (OA) [Cason, Verrier, London, Mangano & Hickey], 665
- endothelium**
- dependent inhibition of coronary arteries, isoflurane causes (OA) [Blaise, Sill, Nugent, Van Dyke & Vanhoutte], 513
- radial**
- aberrant, inadvertent cannulation of (CO) [Westover], 610
- Artificial ventilation, See under Ventilation**
- Asphyxia, fetal, See under Complications**
- Aspiration, See under Complications**
- Asystole, See under Complications**
- Ataractics**
- phenothiazines**
- fluphenazine**
- in neuroleptic malignant syndrome (OA) [Caroff, Rosenberg, Fletcher, Heiman-Patterson & Mann], 20
- Atelectasis, See under Lung(s)**
- Atlanto-axial subluxation, See under Complications**
- Atracurium, See under Biotransformation (drug); Neuromuscular relaxants; Pharmacokinetics; Interactions (drug); Pharmacodynamics; Pharmacology**
- Atropine, See under Parasympathetic nervous system; Premedication**
- Automatic blood pressure monitoring device, See under Equipment**

Autotransfusion, *See under* Transfusion
Awake tracheal intubation, *See under* Intubation
Axon, *See under* Nerve(s)

B

Bain circuit, *See under* Equipment
Balanced anesthesia, *See under* Anesthetic techniques
Barbiturates, *See under* Anesthetics, intravenous; Interactions (drugs); Pharmacology
Baroreceptor reflexes, *See under* Blood pressure
Behavioral abnormalities, *See under* Complications
Benzodiazepines, *See under* Hypnotics; Interactions (drugs); Pharmacology
Beta adrenergic blocking drugs, *See under* Sympathetic nervous system
Beta adrenergic receptors, *See under* Receptors
Beta-endorphin, *See under* Brain
Beta-receptors, *See under* Sympathetic nervous system
Bier block, *See under* Anesthetic techniques
Biochemistry, cerebral, *See under* Brain
Biotransformation (drug)
 atracurium
 in vitro
 and in humans (OA) [Tsui, Graham & Torda], 722
 in vivo
 and in vitro (OA) [Tsui, Graham & Torda], 722
Blood
 algorithm for O₂ saturation
 and pulse oximetry errors (LR) [Severinghaus & Naifeh], 551
 coagulation
 lethal, during coronary artery bypass graft surgery (CR) [Litwack & Horrow], 134
 protamine
 laboratory test to detect antibodies to (CO) [Levy], 281
 and protamine in prevention of pulmonary hypertension (CR) [Kronenfeld, Garguilo, Weinberg, Grant, Thomas & Turndorf], 578
 glucose
 concentrations for routine intravenous infusion in pediatric outpatient surgery (CR) [Welborn, Hannallah, McGill, Ruttmann & Hicks], 427
 reevaluation of intraoperative use (MI) [Sieber, Smith, Traystman & Wollman], 72
 hemorrhage
 graded, systolic pressure variation as indicator of hypovolemia (OA) [Perel, Pizov & Cotev], 498
 oxygen dissociation curve
 and pulse oximetry errors (LR) [Severinghaus & Naifeh], 551
 oxygen saturation
 and pulse oximetry errors (LR) [Severinghaus & Naifeh], 551
 plasma oncotic pressure
 and osmolality, changes in, acute cerebral effects of (OA) [Zornow, Todd & Moore], 936
 plasmapheresis
 and cerebral effects of osmolality and oncotic pressure (OA) [Zornow, Todd & Moore], 936
 protamine
 left atrial injection of, does not reliably prevent pulmonary hypertension (CR) [Kronenfeld, Garguilo, Weinberg, Grant, Thomas & Turndorf], 578
 transient hypoxia
 and pulse oximetry errors (LR) [Severinghaus & Naifeh], 551
 volume
 and systolic pressure variation (OA) [Perel, Pizov & Cotev], 498

Blood flow, *See under* Brain
Blood pressure
 baroreceptor reflexes
 effects of droperidol on, in humans (OA) [Balagny, Gauzit, Marty, Couderc, Levron & Desmonts], 473
 central-peripheral gradient
 in possibility of A-V shunting upon cardiopulmonary bypass discontinuation (CR) [Pauca & Meredith], 91
 drug effects
 hypertension
 pretreatment with clonidine (EV) [Longnecker], 1
 and EEG spectral edge frequency changes in laryngoscopy and intubation (CR) [Rampil & Matteo], 139
 hypertension
 anesthesia and, effect of clonidine on perioperative hemodynamics and isoflurane requirements (OA) [Ghignone, Calvillo & Quintin], 3
 postoperative, intravenous labetalol for treatment of (CR) [Leslie, Kalayjian, Sirgo, Plachetka & Watkins], 413
 hypovolemia
 systolic pressure variation as indicator of, in graded hemorrhage (OA) [Perel, Pizov & Cotev], 498
 left atrial
 measurement of: surprisingly complex problem (EV) [Teplick], 289
 mean arterial, *See under* Hemodynamics
 measurement
 in possibility of A-V shunting upon cardiopulmonary bypass discontinuation (CR) [Pauca & Meredith], 91
 pulmonary artery
 measurement of: surprisingly complex problem (EV) [Teplick], 289
 right atrial
 measurement of: surprisingly complex problem (EV) [Teplick], 289
 systolic
 as indicator of hypovolemia in ventilated dogs subjected to graded hemorrhage (OA) [Perel, Pizov & Cotev], 498
 See also under Monitoring; Pediatrics
Book reviews
 Bready, and Smith, *Decision Making in Anesthesiology*, 615
 DeKornfeld, T. J. (ed.), *Anesthesiology: A Concise Textbook*, 871
 Gelman, S., *Anesthesia and Organ Transplantation*, 871
 Howland, Rooney, and Goldiner (eds.), *Manual of Anesthesia in Cancer Care*, 451
 Katz, J., and Steward, D. J., (eds.), *Anesthesia and Uncommon Pediatric Disease*, 616
 Levy, J. M., *Anaphylactic Reactions in Anaesthesia and Intensive Care*, 450
 Lunn, J. N. (ed.), *Epidemiology in Anesthesia: The Techniques of Epidemiology Applied to Anesthetic Practice*, 450
 Nuwer, M. R. (ed.), *Evoked Potential Monitoring in the Operating Room*, 873
 Petty, C. (ed.), *The Anesthesia Machine*, 872
 Shnider, S. M. (ed.), *Anesthesia for Obstetrics*, 2nd edition, 615
 Snyder, J. V., and Pinsky, M. R., *Oxygen Transport in the Critically Ill*, 614
 Taylor, K. M., *Cardiopulmonary Bypass*, 450
 Wu, W-H. (ed.), *Pain Management: Assessment and Treatment of Acute and Chronic Syndromes*, 614
Bradycardia, *See under* Complications
Brain
 ACTH
 and inhibition of stress-induced beta-endorphin secretion by his-

- tamine receptor antagonists (CO) [Bach, Knigge & Warberg], 605
- anesthetic uptake and elimination**
of halothane, in rat brain, with fluorine nuclear magnetic resonance spectroscopy (OA) [Litt, González-Méndez, James, Sessler, Mills, Chew, Moseley, Pereira, Severinghaus & Hamilton], 161
- beta-endorphin**
stress-induced, inhibition of secretion of, by histamine receptor antagonists (CO) [Bach, Knigge & Warberg], 605
- biochemistry**
high-energy metabolites
new techniques, new opportunities, old problems (EV) [Smith & Chance], 157
- lactate**
new techniques, new opportunities, old problems (EV) [Smith & Chance], 157
- blood flow**
in changes in plasma osmolality and oncotic pressure (OA) [Zornow, Todd & Moore], 936
effect of halothane on, in fetal lamb *in vitro* (OA) [Cheek, Hughes, Dailey, Field, Pytko, Rosen, Parer & Shnider], 361
effect of lidocaine on, in dogs anesthetized with isoflurane (OA) [Milde & Milde], 180
and effects of fentanyl and midazolam in young and aged rats (OA) [Baughman, Hoffman, Albrecht & Miletich], 314
and pharmacologic EEG suppression during cardiopulmonary bypass (OA) [Woodcock, Murkin, Farrar, Tweed, Guiraudon & McKenzie], 218
- regional**
effect of nimodipine on, in rat (OA) [Young, Josovitz, Morales & Chien], 54
- blood volume**
is increased in dogs during administration of nitrous oxide or isoflurane (OA) [Archer, Labrecque, Tyler, Meyer & Trop], 642
- central nervous system**
depression
from epidural fentanyl for extracorporeal shock wave lithotripsy (CR) [Wells & Davies], 991
electroconvulsive therapy—1987 and (RA) [Selvin], 367
- excitation**
during exposure to isoflurane, enflurane, and halothane in mice (LR) [Komatsu & Ogli], 771
- cryogenic injury**
intracranial pressure effects of isoflurane and halothane following (OA) [Scheller, Todd, Drummond & Zornow], 507
- damage**
hypoxia
magnetic resonance spectroscopy in (EV) [Smith & Chance], 157
- ischemia**
magnetic resonance spectroscopy in (EV) [Smith & Chance], 157
- disinhibition**
during exposure to isoflurane, enflurane, and halothane in mice (LR) [Komatsu & Ogli], 771
- edema**
in changes in plasma osmolality and oncotic pressure (OA) [Zornow, Todd & Moore], 936
- electroencephalogram**
and isoflurane to decrease frequency of cerebral ischemia during carotid endarterectomy (OA) [Michenfelder, Sundt, Fode & Sharbrough], 336
- in lidocaine dosage in dogs anesthetized with isoflurane (OA) [Milde & Milde], 180
- in study of cerebral vascular and metabolic effects of fentanyl and midazolam in young and aged rats (OA) [Baughman, Hoffman, Albrecht & Miletich], 314
- electroencephalography**
during exposure to isoflurane, enflurane, and halothane in mice (LR) [Komatsu & Ogli], 771
- fluorine**
nuclear magnetic resonance spectroscopy, study of halothane uptake and elimination in rat brain (OA) [Litt, González-Méndez, James, Sessler, Mills, Chew, Moseley, Pereira, Severinghaus & Hamilton], 161
- glucose utilization**
regional
effect of nimodipine on, in rat (OA) [Young, Josovitz, Morales & Chien], 54
- hemiplegia**
sensitivity of adductor pollicis and diaphragm muscles to atracurium in (CR) [Laycock, Smith, Donati & Bevan], 851
- hemorrhage**
perianesthetic, in preterm neonates (CR) [Friesen, Honda & Thieme], 814
- hypothalamus**
and core temperature changes during N₂O fentanyl and halothane/O₂ anesthesia (CR) [Sessler, Rubinstein & Eger], 137
in vivo ¹⁹F nuclear magnetic resonance study of isoflurane elimination from, in rabbit (OA) [Mills, Sessler, Moseley, Chew, Pereira, James & Litt], 169
- intracranial pressure**
in changes in plasma osmolality and oncotic pressure (OA) [Zornow, Todd & Moore], 936
and craniotomy in patient with bronchopleural fistula (CR) [Gutstein & Koblin], 804
effects of isoflurane and halothane following cryogenic brain injury (OA) [Scheller, Todd, Drummond & Zornow], 507
hypocapnia and, during halothane or nitrous oxide (OA) [Artru & Hornbein], 66
is increased in dogs during administration of nitrous oxide or isoflurane (OA) [Archer, Labrecque, Tyler, Meyer & Trop], 642
succinylcholine-induced, "defasciculation" with metocurine prevents (OA) [Stirt, Grosslight, Bedford & Vollmer], 50
- ischemia**
effect of nimodipine on, in rat (OA) [Young, Josovitz, Morales & Chien], 54
- lactate**
and reevaluation of intraoperative glucose use (MI) [Sieber, Smith, Traystman & Wollman], 72
- metabolic rate oxygen**
effect of halothane on, in fetal lamb *in vitro* (OA) [Cheek, Hughes, Dailey, Field, Pytko, Rosen, Parer & Shnider], 361
- metabolism**
effect of lidocaine on, in dogs anesthetized with isoflurane (OA) [Milde & Milde], 180
and effects of fentanyl and midazolam in young and aged rats (OA) [Baughman, Hoffman, Albrecht & Miletich], 314
- opisthotonus**
during exposure to isoflurane, enflurane, and halothane in mice (LR) [Komatsu & Ogli], 771
- oxygen consumption**
effect of lidocaine on, in dogs anesthetized with isoflurane (OA) [Milde & Milde], 180

- and pharmacologic EEG suppression during cardiopulmonary bypass (OA) [Woodcock, Murkin, Farrar, Tweed, Guiraudon & McKenzie], 218
- protection**
 - and isoflurane to decrease frequency of cerebral ischemia during carotid endarterectomy (OA) [Michenfelder, Sundt, Fode & Sharbrough], 336
- stroke**
 - sensitivity of adductor pollicis and diaphragm muscles to atracurium in (CR) [Laycock, Smith, Donati & Bevan], 851
- Bready, and Smith**
 - Decision Making in Anesthesiology* (BR), 615
- Bronchopleural fistula, See under Lung(s)**
- Buffer, See under Acid-base equilibrium**
- Bulimia, See under Complications**
- Bupivacaine, See under Anesthetics, local**
- Burns, See under Complications**

C

- Calcium blocking drugs, See under Pharmacology**
 - Calcium channel blockers**
 - verapamil**
 - and isoflurane, causes regional left-ventricular dyssynchrony in dog (OA) [Videcoq, Arvieux, Ramsay, Foëx, Stone, Ryder & Jones], 635
 - Calcium citrate, See under Ions**
 - Calcium entry blockers**
 - nimodipine**
 - effect of, on post-ischemic cerebral glucose utilization and blood flow in rat (OA) [Young, Josovitz, Morales & Chien], 54
 - See also under Pharmacology*
 - Calcium, See under Ions**
 - Cannula, See under Equipment**
 - Carbon dioxide**
 - absorption**
 - soda lime**
 - stability of sevoflurane in (LR) [Strum, Johnson & Eger], 779
 - elimination, separate lung blood flow in anesthetized dogs (LR) [Carlsson, Hedenstierna, Blomqvist & Strandberg], 240
 - extracorporeal elimination**
 - treatment of acute respiratory failure by, with artificial lung (CR) [Bindslev, Eklund, Norlander, Swedenborg, Olsson, Nilsson, Larm, Gouda, Malmberg & Scholander], 117
 - hypocapnia**
 - prolonged, does not alter rate of cerebrospinal fluid production during halothane or nitrous oxide (OA) [Artru & Hornbein], 66
 - production**
 - and reevaluation of intraoperative glucose use (MI) [Sieber, Smith, Traystman & Wollman], 72
- Carbon dioxide response, See under Ventilation**
- Cardiac anesthesia, See under Anesthesia**
- Cardiac contractility, See under Heart**
- Cardiac muscle, See under Heart; Muscle**
- Cardiac output, See under Heart; Hemodynamics**
 - measurement of, *See under Measurement techniques*
- Cardiac surgery, See under Surgery**
- Cardiopulmonary bypass, See under Surgery, cardiac**
- Cardiovascular anesthesia, See under Anesthesia**
- Cardiovascular effects of ions, See under Ions**
- Cardiovascular hemodynamics, See under Hemodynamics**
- Carotid endarterectomy, See under Surgery**

- Catecholamines, See under Sympathetic nervous system; Hormones**
- Caudal anesthesia, See under Anesthetic techniques**
- Celiac plexus block, See under Anesthetic techniques**
- Central nervous system, See under Brain**
- Central venous pressure, See under Monitoring**
- Central-peripheral gradient, See under Blood pressure**
- Cerebral blood flow, See under Brain**
- Cerebral hemorrhage, See under Brain**
- Cerebral metabolic rate of oxygen, See under Brain**
- Cerebral metabolism, See under Brain**
- Cerebrospinal fluid**
 - pressure**
 - hypocapnia and, during halothane or nitrous oxide (OA) [Artru & Hornbein], 66
 - production**
 - hypocapnia and, during halothane or nitrous oxide (OA) [Artru & Hornbein], 66
 - volume**
 - hypocapnia and, during halothane or nitrous oxide (OA) [Artru & Hornbein], 66
- Cesarean section, See under Anesthesia, obstetric**
- Chlordiazepoxide, See under Hypnotics, benzodiazepines**
- Chlorisondamine, See under Pharmacology, ganglionic blocking drugs**
- Chlorobutanol, See under Preservatives**
- Cholinesterase, See under Enzymes**
- Chromatography**
 - gas, See under Measurement techniques**
- Circuits, See under Equipment**
- Circulation**
 - heart rate**
 - and minimum alveolar concentration of isoflurane in preterm neonates (OA) [Le Dez & Lerman], 301
 - hypotension**
 - and minimum alveolar concentration of isoflurane in preterm neonates (OA) [Le Dez & Lerman], 301
 - systolic arterial pressure**
 - and minimum alveolar concentration of isoflurane in preterm neonates (OA) [Le Dez & Lerman], 301
- Circumcision, See under Surgery**
- Cirrhosis, See under Toxicity**
- Clearance of anesthetics, See under Anesthetics**
- Clinical research, See under Research**
- Clonidine, See under Pharmacology; Potency, anesthetic; Sympathetic nervous system, alpha adrenergic agonist; Premedication; sympatholytic agents**
- Closed circuit anesthesia, See under Anesthesia**
- Coagulation, See under Blood**
- Collateral blood flow, See under Heart**
- Colloid oncotic pressure, See under Fluid balance**
- Colloids, See under Fluid balance**
- Complications**
 - adverse outcomes**
 - effects of information feedback and pulse oximetry on (OA) [Cooper, Cullen, Nemeskai, Hoaglin, Gevirtz, Csété & Venable], 686
- AIDS**
 - HTLV-III is now HIV (CO) [Freedman], 145
 - HTLV-III is now HIV (CO) [Kunkel & Warner], 146
 - preoperative testing for human immunodeficiency virus infection (CO) [Bazara], 278

- preoperative testing for human immunodeficiency virus infection (CO) [Kunkel & Warner], 278
- airway obstruction**
and margin of safety in positioning modern double-lumen endotracheal tubes (OA) [Benumof, Partridge, Salvatierra & Keating], 729
- akathisia**
reaction of preoperative metoclopramide (CR) [Caldwell, Rains & McKitterick], 854
- anaphylaxis**
reaction to protamine, laboratory test to detect (CO) [Levy], 281
- anesthesia**
incidence of, effects of information feedback and pulse oximetry on (OA) [Cooper, Cullen, Nemeskai, Hoaglin, Gevirtz, Cssete & Venable], 686
- anesthesia machine failure**
prevention of hypoxic gas mixtures in (CO) [Herbst], 281
- apnea**
in general anesthesia in upper respiratory tract infections in children (OA) [Tait & Knight], 930
following intravenous guanethidine Bier block (CO) [Woo & McQueen], 281
- Arnold-Chiari malformation**
type I
appearing after tonsillectomy (CR) [Dong], 120
- asphyxia**
fetal
effect of halothane on (OA) [Cheek, Hughes, Dailey, Field, Pytko, Rosen, Parer & Shnider], 361
- aspiration**
in continuous hypopharyngeal pH during anesthesia *via* mask (CR) [Kofke, Fasano, Keamy & Derr], 434
hydrochloric acid, effect of nitroprusside on pulmonary edema in (OA) [Gottlieb, Wood, Hansen & Long], 203
- asystole**
in patients receiving diltiazem therapy during enflurane anesthesia (CR) [Hantler, Wilton, Learned, Hill & Knight], 94
- atlanto-axial subluxation**
and trisomy-21: perioperative complications (CR) [Williams, Somerville, Miner & Reilly], 253
- behavioral abnormalities**
as reaction to preoperative metoclopramide (CR) [Caldwell, Rains & McKitterick], 854
- bradycardia**
in patients receiving diltiazem therapy during enflurane anesthesia (CR) [Hantler, Wilton, Learned, Hill & Knight], 94
- burns**
erosion, and "sun" tan with use of pulse oximetry in infants (CR) [Miyasaka & Ohata], 1008
- central nervous system depression**
from epidural fentanyl for extracorporeal shock wave lithotripsy (CR) [Wells & Davies], 991
- Duchenne muscular dystrophy**
effects of bupivacaine during epidural anesthesia in (CR) [Murat, Esteve, Montay, Delleur, Gaudiche & Saint-Maurice], 249
following halothane anesthesia without succinylcholine (CR) [Rubiano, Chang, Carroll, Sonbolian & Larson], 856
- dysrhythmias**
in general anesthesia in upper respiratory tract infections in children (OA) [Tait & Knight], 930
intraoperative cardiac, in bulimic anorexia nervosa (CR) [Arnold, Rose & Stoddard], 1003
ventricular, midazolam-induced (CO) [Arcos], 612
- endobronchial intubation**
in children: tube bevel and side of intubation (CO) [Baraka, Akel & Muallem], 869
- epidermolysis bullosa**
regional anesthesia in child with (CR) [Kaplan & Strauch], 262
- explosions**
involving endotracheal tubes in oxygen and nitrous oxide enriched atmosphere (LR) [Wolf & Simpson], 236
- eye damage**
from reusable masks (CO) [Durkan & Fleming], 444
- fires**
involving endotracheal tubes in oxygen and nitrous oxide enriched atmosphere (LR) [Wolf & Simpson], 236
- foreign body**
from tube of anesthetic ointment (CO) [Gray], 155
from tube of anesthetic ointment (CO) [Jackson & Welch], 154
- hepatotoxicity**
from halogenated anesthetics in phenobarbital-treated rats (OA) [Becker, Miletich & Albrecht], 185
- human immunodeficiency virus**
HTLV-III is now referred to as (CO) [Freedman], 145
HTLV-III is now referred to as (CO) [Kunkel & Warner], 146
- hypertension**
postoperative, intravenous labetalol for treatment of (CR) [Leslie, Kalayjian, Sirgo, Plachetka & Watkins], 413
- hyperthermia**
susceptibility in neuroleptic malignant syndrome (OA) [Caroff, Rosenberg, Fletcher, Heiman-Patterson & Mann], 20
- hypocalcemia**
and prolonged QT interval following carotid artery surgery (CR) [Zane, Eisenkraft & Haimov], 998
- hypotension**
effects of information feedback and pulse oximetry on incidence of (OA) [Cooper, Cullen, Nemeskai, Hoaglin, Gevirtz, Cssete & Venable], 686
histamine release by vancomycin as mechanism for (CR) [Levy, Kettlekamp, Goertz, Hermens & Hirshman], 122
maternal, effects of, during epidural anesthesia for cesarean section (CR) [Brizgys, Dailey, Shnider, Kotenko & Levinson], 782
during total knee replacement surgery with total condylar prosthesis (CR) [Tartiere, Berthelin, Jehan, Trahay, Samii & Quesnel], 838
inadvertent cannulation of aberrant radial artery (CO) [Westover], 610
- intravascular injection**
test dose as safeguard against, in epidural analgesia (CR) [Van Zundert, Vaes, Soetens, De Vel, Van Der Aa, Van Der Donck, Meeuwis & DeWolf], 436
- laryngospasm**
in general anesthesia in upper respiratory tract infections in children (OA) [Tait & Knight], 930
- masseter spasm**
and effects of succinylcholine on mouth opening (OA) [Van Der Spek, Fang, Ashton-Miller, Stohler, Carlson & Schork], 459
- myocardial dysfunction**
in nitrous oxide after coronary air embolism (OA) [Tuman, McCarthy, Spiess, Overfield & Ivankovich], 952
- myoclonus**
following sufentanil without EEG seizure activity (CR) [Bowdle], 593
- near-drowning**
succinylcholine-induced hyperkalemia in (CO) [Tong], 605
succinylcholine-induced hyperkalemia in (CO) [Zauder], 604

neurologic

during sedation in cervical spondylosis (CR) [Miller, Crosby & Sundaram], 844

neurologic deficit

on emergence from anesthesia (CR) [Oliver, Cucchiara, Warner & Muir], 823

nitrous oxide and oxygen indices of flammability

of endotracheal tubes (LR) [Wolf & Simpson], 236

pharyngeal edema

new laryngoscope blade to overcome (LR) [Bainton], 767

pollution

associated with keyed filling devices (CO) [Williams, Dicks & Benson], 610

postherpetic neuralgia

prevention of (CO) [Bauman], 441

prevention of (CO) [Yanagida & Suwa], 441

postoperative confusion

in elderly (CR) [Chung, Meier, Lautenschlager, Carmichael & Chung], 422

propofol versus thiopental for outpatient anesthesia (CR) [Johnston, Noseworthy, Anderson, Konopad & Grace], 431

pulmonary artery perforation

balloon inflation and deflation as influence on (CR) [Johnston, Royster, Vinten-Johansen, Gravlee, Howard, Mills & Tucker], 110

pulmonary edema

intraoperative re-expansion (CR) [Disederio, Meister & Bedford], 821

pulmonary hypertension

left atrial injection of protamine does not reliably prevent (CR) [Kronenfeld, Garguilo, Weinberg, Grant, Thomas & Turndorf], 578

rhabdomyolysis

following halothane anesthesia without succinylcholine (CR) [Rubiano, Chang, Carroll, Sonbolian & Larson], 856

rigidity

ketanerpin pretreatment reverses alfentanil-induced (OA) [Weinger, Cline, Smith & Koob], 348

thrombosis

lethal, during coronary artery bypass graft surgery (CR) [Litwack & Horrow], 134

torticollis

acquired

appearing after tonsillectomy (CR) [Dong], 120

trisomy-21 syndrome

and atlanto-axial subluxation: perioperative complication (CR) [Williams, Somerville, Miner & Reilly], 253

upper airway obstruction

new laryngoscope blade to overcome (LR) [Bainton], 767

Computed tomography, *See under* Measurement techniques

Computer, *See under* Equipment

Computerized EEG, *See under* Monitoring

Computerized monitoring, *See under* Measurement techniques

Conduction block, *See under* Nerve(s)

Confusion, postoperative, *See under* Complications

Congenital heart disease, *See under* Heart

Conjoined twins, *See under* Twins

Consent, *See under* Medicolegal

Continuous infusion, *See under* Anesthetic techniques

Contracture test, *See under* Hyperthermia, malignant

Controlled ventilation, *See under* Ventilation

Coronary arteries, *See under* Arteries; Heart

Coronary artery disease, *See under* Heart

Coronary artery steal, *See under* Arteries

Coronary embolism, *See under* Embolism

Coronary occlusion, *See under* Heart

Cortisol, *See under* Hormones

Cpss50, *See under* Pharmacodynamics

Creatine kinase, *See under* Enzymes

Creatinine clearance, *See under* Kidney

Critical care, *See under* Intensive care

Critical care unit

midazolam infusion in, for sedation following cardiac surgery (CR) [Westphal, Cheng, White, Sladen, Rosenthal & Sung], 257

Cryogenic injury, *See under* Brain

Crystalloids, *See under* Fluid balance

Cyanosis, *See under* Heart

D

Damage, cerebral, *See under* Brain

Degradation of anesthetics, *See under* Anesthetics

DeKornfeld, T. J.

Anesthesiology: A Concise Textbook (BR), 871

Depth of anesthesia, *See under* Anesthesia; Pharmacodynamics

Desensitization block, *See under* Neuromuscular relaxants

Dextran, *See under* Transfusion

Diaphragm, *See under* Muscle

Diazoxide, *See under* Metabolism

Differential nerve block, *See under* Nerve(s)

Diltiazem, *See under* Pharmacology

Disinhibition, *See under* Brain

Distribution, *See under* Immune response

Disulfiram, *See under* Sympathetic nervous system, sympatholytic agents

Doppler echocardiography, *See under* Measurement techniques

Double-lumen tubes, *See under* Equipment

Drapes, *See under* Equipment

Droperidol, *See under* Anesthetics, intravenous

Drug interactions, *See under* Interactions (drug)

Dual block, *See under* Neuromuscular relaxants

Duchenne muscular dystrophy, *See under* Complications

Dysrhythmias, *See under* Complications

E

Echocardiography, *See under* Measurement techniques; Monitoring

ED₅₀, *See under* Potency, anesthetic

Edema, *See under* Brain

Edrophonium, *See under* Antagonists, neuromuscular relaxants

Elderly, *See under* Age factors

Electrical systems

electrocautery

and flammability of endotracheal tubes (LR) [Wolf & Simpson], 236

electroconvulsive therapy

in 1987 (RA) [Selvin], 367

Electrocardiography, *See under* Heart; Monitoring

Electrocautery, *See under* Electrical systems

Electroconvulsive therapy, *See under* Electrical systems

Electroencephalogram, *See under* Brain

Electroencephalography, *See under* Brain; Monitoring

Electromechanical coupling, *See under* Heart

Electromyography, *See under* Measurement techniques

Electrophysiology, *See under* Nerve(s)

Elimination of anesthetics, cerebral, *See under* Brain

Elimination of anesthetics, See under Anesthetics**Embolism****air**

associated with veno-venous bypass during orthotopic liver transplantation (CR) [Khouri, Mann, Porot, Abdul-Rasool & Busuttil], 848

during cesarean section, central venous pressure monitoring and (CO) [Robinson, Bunegin & Albin], 147

during cesarean section, central venous pressure monitoring and (CO) [Rupp], 146

coronary

effects of nitrous oxide on coronary perfusion after (OA) [Tuman, McCarthy, Spiess, Overfield & Ivankovich], 952

introducer sheath malfunction producing (CR) [Cohen, Mark, Morris & Frank], 573

is EEG a useful monitor during cardiac surgery? (CR) [El-Fiki & Fish], 575

venous, during craniectomy in supine infants (CR) [Harris, Yemen, Davidson, Strafford, Rowe, Sanders & Rockoff], 816

venous, effects of halothane and pentobarbital on threshold of transpulmonary passage of (OA) [Yahagi & Furuya], 905

coronary**air**

effects of nitrous oxide on coronary perfusion after (OA) [Tuman, McCarthy, Spiess, Overfield & Ivankovich], 952

End-diastolic volume, See under Heart**Endobronchial intubation, See under Anesthetic techniques; Complications; Intubation****Endocrine stress response, See under Hormones****Endothelium, See under Arteries****Endotracheal intubation, See under Intubation****Endotracheal tube monitoring lumens, See under Equipment****Endotracheal tubes, See under Equipment****End-tidal concentration, See under Monitoring****Enflurane, See under Anesthetics, volatile****Enzyme induction, See under Metabolism****Enzymes****cholinesterase**

serum, atypical, eliminated by orthotopic liver transplantation (CR) [Khouri, Brill, Walts & Busuttil], 273

creatine kinase

and mechanism of negative inotropic action of halothane (OA) [Murray, Blanck, Rogers & Jacobus], 649

plasma cholinesterase

and succinylcholine neuromuscular blockade, effect of quinidine on (CR) [Kambam, Franks, Naukam & Sastry], 858

Ephedrine, See under Sympathetic nervous system, sympathomimetic agents**Epidermolysis bullosa, See under Complications****Epidural analgesia, See under Analgesia****Epidural anesthesia, See under Anesthetic techniques****Epidural narcotic anesthesia, See under Anesthetic techniques****Epiglottitis, See under Airway****Epinephrine, See under Sympathetic nervous system, catecholamines****Equipment****anesthesia machine**

malfunction, and prevention of hypoxic gas mixtures (CO) [Herbst], 281

anesthetic**design**

to overcome pharyngeal obstruction (LR) [Bainton], 767

anesthetic ointment

foreign body from tube of (CO) [Jackson & Welch], 154

automatic blood pressure

use of different cuffs with Dinamap™, caution in (CO) [Peterson], 607

cannula**translaryngeal**

in Gildar's transtracheal ventilation system (CO) [Reich & Schwartz], 446

in Gildar's transtracheal ventilation system (CO) [Sosis], 446
for transtracheal oxygenation system, problem with (CO) [Goldman & Braude], 447

for ventilation: continuing misconceptions (CO) [Yealy & Stewart], 445

circuits**Bain**

the CPAP oxygenation during one-lung ventilation, high pressure pop-off safety device when using (CO) [Hensley, Martin & Skeehan], 863

computer(s)

for accurate, automated, continuously displayed pulmonary artery pressure measurement (OA) [Mitchell, Meathe, Jones, Donch, Ricks, Benumof & Saidman], 294

central vascular pressures measured by (EV) [Teplick], 289

drapes

for sterile field in regional anesthesia (CO) [Ellermeyer], 150

endotracheal tubes

correlation of size of, with sore throat and hoarseness following general anesthesia (CR) [Stout, Bishop, Dwersteg & Cullen], 419

flammability of, in oxygen and nitrous oxide enriched atmosphere (LR) [Wolf & Simpson], 236

with monitoring lumens

problems associated with, in pediatric patients (CO) [Miller], 1018

problems associated with, in pediatric patients (CO) [Wiegert], 1019

without radiopaque marker for cervical CT-scans (CO) [Tashiro & Yagi], 1022

fiberoptic bronchoscope

another use of (CO) [Stone], 608

foreign body from tube of (CO) [Gray], 155

introducer sheath

malfunction producing insidious air embolism (CR) [Cohen, Mark, Morris & Frank], 573

keyed filling devices

pollution associated with (CO) [Williams, Dicks & Benson], 610

laryngoscope**blade**

to overcome pharyngeal obstruction (LR) [Bainton], 767

for management of difficult airway (CO) [Coveler], 154

mask(s)

continuous hypopharyngeal pH during anesthesia *via* (CR) [Kofke, Fasano, Keamy & Derr], 434

reusable, potential eye damage from (CO) [Durkan & Fleming], 444

mass spectrometer

sampling system, one-way leak in (CO) [Koeber & Munster], 606

monitoring

for accurate, automated, continuously displayed pulmonary artery pressure measurement (OA) [Mitchell, Meathe, Jones, Donch, Ricks, Benumof & Saidman], 294

See also under Monitoring**monitor(s)****fetal**

modification of, as hazardous (CO) [Sand], 448

needle(s)

- Tuohy, misspelling of word (CO) [Clark], 612
- Tuohy, misspelling of word (CO) [Saidman], 612

oximeters

- accuracy of response of, to profound hypoxia (LR) [Severinghaus & Naifeh], 551

PEEP valve

- for use with Bain circuit for CPAP oxygenation during one-lung ventilation (CO) [Hensley, Martin & Skeehan], 863

pneumatic compression device

- hemodynamic effects of (CR) [Unger & Feiner], 266

pulse oximeter(s)

- ambient light affects (CO) [Hanowell, Eisele & Downs], 864
- ambient light affects (CO) [Swedlow, Running & Feaster], 865
- dyes and (CO) [Eide, Humayun-Scott & Poppers], 149
- dyes and (CO) [Unger & Scheller], 148
- reuse of Nellcor pulse probe with (CO) [Kao & Badgwell], 866

stethoscope

precordial

- method of securing head of (CO) [Welsh], 280

stethoscopic transmitter

- inexpensive (CO) [Redon & DeTraglia], 283

tourniquet

- and hemodynamic changes during total knee replacement surgery with total condylar prosthesis (CR) [Tartiere, Berthelin, Jehan, Trahay, Samii & Quesnel], 838
- release, metabolic responses to, in children (CR) [Brustowicz, Moncorge & Koka], 792

tubes

double-lumen

- endotracheal, margin of safety in positioning (OA) [Benumof, Partridge, Salvatierra & Keating], 729

Esophageal sphincter

- lower, *See under* Gastrointestinal

Etomidate, *See under* Anesthetics, intravenous

Evoked potentials, *See under* Monitoring

Exercise test, *See under* Hyperthermia

Explosions, *See under* Complications

Eye(s)

damage

- potential, from reusable masks (CO) [Durkan & Fleming], 444

intraocular pressure

- changes during muscular hyperactivity after general anesthesia (CO) [Grover, Mahajan & Sharma], 604
- changes during muscular hyperactivity after general anesthesia (CO) [Williams], 604

F

¹⁹F, *See under* Ions

Fasciculations, *See under* Muscle skeletal

Fentanyl, *See under* Analgesics, narcotic; Anesthetics, intravenous

Fetal monitor, *See under* Equipment

Fiberoptic bronchoscope, *See under* Equipment

Fiberoptic bronchoscopy, *See under* Anesthetic techniques

Fiberoptic intubation, *See under* Intubation

Fires, *See under* Complications

Flammability

- indices, *See under* Complications

Flow proportional admixture, *See under* Lung(s)

Fluid balance

colloid oncotic pressure

- and osmolality, changes in, acute cerebral effects of (OA) [Zornow, Todd & Moore], 936

colloids

- and plasma oncotic pressure, changes in, acute cerebral effects of (OA) [Zornow, Todd & Moore], 936

crystalloids

- and plasma oncotic pressure, changes in, acute cerebral effects of (OA) [Zornow, Todd & Moore], 936

hetastarch

- and plasma oncotic pressure, changes in, acute cerebral effects of (OA) [Zornow, Todd & Moore], 936

osmolality

- and plasma oncotic pressure, changes in, acute cerebral effects of (OA) [Zornow, Todd & Moore], 936

Fluorine, *See under* Brain

Fluphenazine, *See under* Ataractics, phenothiazines

Foreign body, *See under* Airway; Complications

Formaldehyde, *See under* Preservatives

Free fatty acids, *See under* Metabolism

Frequency-dependent block, *See under* Nerve(s)

Functional residual capacity, *See under* Lung(s)

G

Ganglionic blocking drugs, *See under* Pharmacology

Gas chromatography, *See under* Measurement techniques

Gas exchange, *See under* Anesthesia

Gases

nonanesthetic

sulphur hexafluoride

- elimination, separate lung blood flow in anesthetized dogs (LR) [Carlsson, Hedenstierna, Blomqvist & Strandberg], 240

Gastric pH versus H⁺, *See under* Acid-base equilibrium

Gastrointestinal tract

antacids

- during surgery in obstetric and gynecologic patients (CR) [Faure, Lim, Block, Tan & Roizen], 274

esophageal sphincter

lower

- pressure in, in infants and children, intravenous atropine rapidly reduces (CR) [Opie, Chaye & Steward], 989

pH

- sodium bicarbonate buffers gastric acid during surgery in obstetric and gynecologic patients (CR) [Faure, Lim, Block, Tan & Roizen], 274

Gelman, S.

- Anesthesia and Organ Transplantation* (BR), 871

General anesthesia, *See under* Anesthesia

Geriatrics, *See under* Age factors

Glucose

blood, *See under* Blood

metabolism, *See under* Metabolism

***See under* Blood; Metabolism**

utilization, *See under* Brain

Glycogen, *See under* Metabolism

Guanethidine, *See under* Sympathetic nervous system

Guinea pigs, *See under* Species

H

Halothane, *See under* Anesthetics, volatile

Heart

action potential

- and halothane and ischemia related arrhythmias (OA) [Turner, Bosnjak & Kampine], 619

- halothane: cause or cure for arrhythmias? (EV) [Atlee], 617

arrhythmias

- following edrophonium/atropine mixture for antagonism of neu-

- romuscular blockade (CR) [Urquhart, Ramsey, Royster, Morell & Gerr], 561
- halothane: cause or cure for arrhythmias? (EV) [Atlee], 617
- ischemia related, halothane and (OA) [Turner, Bosnjak & Kampine], 619
- blood flow**
- collateral**
- effects of isoflurane and halothane on, capacity to induce coronary steal (OA) [Cason, Verrier, London, Mangano & Hickey], 665
- myocardial**
- effects of isoflurane and halothane on, capacity to induce coronary steal (OA) [Cason, Verrier, London, Mangano & Hickey], 665
- peripheral**
- in infants, caudal anesthesia and (OA) [Payen, Ecoffey, Carli & Dubousset], 681
- cardiac output**
- and caudal anesthesia and blood flows in infants (OA) [Payen, Ecoffey, Carli & Dubousset], 681
- effect of nitroprusside on, in hydrochloric acid aspiration (OA) [Gottlieb, Wood, Hansen & Long], 203
- invasive *versus* 2D-echocardiography hemodynamic indices of (OA) [Thys, Hillel, Goldman, Mindich & Kaplan], 630
- congenital heart disease**
- and right-to-left cardiac shunt, influence on lidocaine pharmacokinetics on (OA) [Bokesch, Castaneda, Ziemer & Wilson], 739
- contractility**
- and pH effect of calcium uptake in presence volatile anesthetics (LR) [Casella, Suite, Fisher & Blanck], 386
- coronary artery disease**
- calcium entry blockers and α -receptor responsiveness in (OA) [Massagee, McIntyre, Kates, Reves & Bai], 485
- is isoflurane dangerous for patient with? (CO) [Abram witz], 286
- is isoflurane dangerous for patient with? (CO) [Becker], 287
- is isoflurane dangerous for patient with? (CO) [Hamilton], 286
- is isoflurane dangerous for patient with? (CO) [Merin], 284
- coronary occlusion**
- halothane inhibits calcium accumulation and calcium paradox following, in guinea pig hearts (OA) [Hoka, Bosnjak & Kampine], 197
- cyanosis**
- and right-to-left cardiac shunt, influence on lidocaine pharmacokinetics on (OA) [Bokesch, Castaneda, Ziemer & Wilson], 739
- dysrhythmias**
- effect of second dose of succinylcholine on, following induction of anesthesia with etomidate or midazolam (CR) [Abdul-Rasool, Sears & Katz], 795
- effects of short-term infusion of nifedipine or verapamil on, prior to coronary artery bypass surgery (OA) [Schulte-Sasse & Tar-now], 492
- electrocardiography**
- QT interval**
- prolongation of, in association with large doses of opiates (CO) [Blair, Pruett, Crumrine & Balser], 442
- electromechanical coupling**
- anesthetic depression of (RA) [Rusy & Komai], 745
- end-diastolic volume**
- invasive *versus* 2D-echocardiography hemodynamic indices of (OA) [Thys, Hillel, Goldman, Mindich & Kaplan], 630
- high-energy phosphates**
- effect of halothane on, in neonatal heart (LR) [McAuliffe & Hickey], 231
- idiopathic hypertrophic subaortic stenosis**
- epidural anesthesia for vaginal delivery a patient with (CR) [Min-nich, Quirk & Clark], 590
- inotropism**
- negative**
- in anesthetic depression of myocardial contractility (RA) [Rusy & Komai], 745
- ischemia**
- arrhythmias related to, halothane and (OA) [Turner, Bosnjak & Kampine], 619
- halothane: cause or cure for arrhythmias? (EV) [Atlee], 617
- nitrous oxide added to fentanyl does not induce, in ischemic heart disease (OA) [Cahalan, Prakash, Rulf, Cahalan, Mayala, Lurz, Rosseel, Lachitjaran, Siphanto, Gussenhoven & Roelandt], 925
- muscle**
- in anesthetic depression of myocardial contractility (RA) [Rusy & Komai], 745
- myocardial contractility**
- anesthetic depression of (RA) [Rusy & Komai], 745
- myocardial function**
- comparison of halothane and isoflurane on, pulsed Doppler and two-dimensional echocardiography in (OA) [Murray, Vandewalker, Matherne & Mahoney], 211
- in intermittent pneumatic compression of legs (CR) [Unger & Feiner], 266
- myocardial ischemia**
- halothane inhibits calcium accumulation and calcium paradox following, in guinea pig hearts (OA) [Hoka, Bosnjak & Kampine], 197
- myofibrils**
- anesthetic depression of (RA) [Rusy & Komai], 745
- negative inotropism**
- of halothane, mechanism of (OA) [Murray, Blanck, Rogers & Jacobus], 649
- oxygen consumption**
- and mechanism of negative inotropic action of halothane (OA) [Murray, Blanck, Rogers & Jacobus], 649
- regional ventricular function**
- dysynchrony in, isoflurane-verapamil causes, in dog (OA) [Vide-coq, Arvieux, Ramsay, Foëx, Stone, Ryder & Jones], 635
- shunt(s)**
- right-to-left**
- influence of, on lidocaine pharmacokinetics (OA) [Bokesch, Castaneda, Ziemer & Wilson], 739
- specific bradycardic agents**
- new therapeutic modality for anesthesiology (OA) [Riley, Gross, Kampine & Warltier], 707
- stroke volume**
- invasive *versus* 2D-echocardiography hemodynamic indices of (OA) [Thys, Hillel, Goldman, Mindich & Kaplan], 630
- surgery of, See under Surgery**
- ventricular function**
- in interaction between inhalational anesthetics and verapamil (OA) [Chelly, Hysing, Hill, Abernethy, Diewati, Doursout & Merin], 320
- Heart rate, See under Circulation**
- Heating, See under Temperature**
- Hemiplegia, See under Brain**

Hemodynamics

cardiac output

effect of halothane on, in anesthetized newborn lamb (OA) [Hershenson, O'Rourke, Schena & Crone], 174

fetal

cardiovascular

effect of halothane on, in fetal lamb *in vitro* (OA) [Cheek, Hughes, Dailey, Field, Pytko, Rosen, Parer & Shnider], 361

cerebral blood flow

effect of halothane on, in fetal lamb *in vitro* (OA) [Cheek, Hughes, Dailey, Field, Pytko, Rosen, Parer & Shnider], 361

organ blood flow

effect of halothane on, in fetal lamb *in vitro* (OA) [Cheek, Hughes, Dailey, Field, Pytko, Rosen, Parer & Shnider], 361

maternal

heart rate

effect of halothane on, studied in ewe (OA) [Cheek, Hughes, Dailey, Field, Pytko, Rosen, Parer & Shnider], 361

mean arterial blood pressure

effect of halothane on, studied in ewe (OA) [Cheek, Hughes, Dailey, Field, Pytko, Rosen, Parer & Shnider], 361

uterine blood flow

effect of halothane on, studied in ewe (OA) [Cheek, Hughes, Dailey, Field, Pytko, Rosen, Parer & Shnider], 361

Hemorrhage, See under Blood

Hemorrhagic shock, See under Shock

Hepatotoxicity, See under Complications; Liver; Toxicity

Hetastarch, See under Fluid balance

High-energy metabolites, See under Brain

High-energy phosphates, See under Heart

High-frequency jet ventilation, See under Ventilation

High-risk surgery, See under Surgery

Histamine

reaction from vecuronium priming (CR) [Durrani & O'Hara], 130
release by vancomycin: mechanism for hypotension in man (CR) [Levy, Kettlekamp, Goertz, Hermens & Hirshman], 122

Hormones

antidiuretic

and antidiuretic effect of PEEP (CO) [Payen], 609
and antidiuretic effect of PEEP (CO) [Urzua], 608

catecholamines

effects of coronary artery bypass grafting and natural killer cell activity on (OA) [Tønnesen, Brinkløv, Christensen, Olesen & Madsen], 526

cortisol

effects of coronary artery bypass grafting and natural killer cell activity on (OA) [Tønnesen, Brinkløv, Christensen, Olesen & Madsen], 526

endocrine stress response

effects of coronary artery bypass grafting and natural killer cell activity on (OA) [Tønnesen, Brinkløv, Christensen, Olesen & Madsen], 526

insulin

excessive

treated by pancreatectomy, anesthesia for infant with (CR) [Yamashita & Tsuneto], 985

methylprednisolone

and epidural morphine for low-back pain (CR) [Dallas, Lin, Wu & Wolske], 408

Howland, Rooney, and Goldiner (eds.)

Manual of Anesthesia in Cancer Care (BR), 451

Human immunodeficiency virus, See under Complications

Hyperglycemia, See under Metabolism

Hyperinsulinemia, See under Metabolism

Hyperinsulinism, See under Metabolism

Hyperkalemia, See under Ions, potassium

Hypertension, See under Blood pressure; Complications

Hyperthermia

as complication of extracorporeal shock wave lithotripsy (CO) [Malhotra], 448

exercise test

graded, effects of, on leg exchange of energy substrates in malignant hyperthermia susceptible subjects (OA) [Rutberg, Hakanson, Hall & Jorfeldt], 308

malignant

contracture test

and fiber type in, no relationship between (LR) [Heiman-Patterson, Fletcher, Rosenberg & Tahmouh], 82
and effects of succinylcholine on mouth opening (OA) [Van Der Spek, Fang, Ashton-Miller, Stohler, Carlson & Schork], 459

fiber type

and halothane contracture test in, no relationship between (LR) [Heiman-Patterson, Fletcher, Rosenberg & Tahmouh], 82
and masseter spasm in children with strabismus anesthetized with halothane and succinylcholine (CR) [Carroll], 559

neuroleptic malignant syndrome

causes susceptibility to (OA) [Caroff, Rosenberg, Fletcher, Heiman-Patterson & Mann], 20

in renal transplant recipient (CR) [Byers & Merin], 979

skeletal muscle rigidity

tests of, in neuroleptic malignant syndrome (OA) [Caroff, Rosenberg, Fletcher, Heiman-Patterson & Mann], 20
susceptibility in neuroleptic malignant syndrome (OA) [Caroff, Rosenberg, Fletcher, Heiman-Patterson & Mann], 20
susceptibility to, effects of graded exercise on leg exchange of energy substrates in (OA) [Rutberg, Hakanson, Hall & Jorfeldt], 308

trismus presaging (EV) [Rosenberg], 453

See also under Complications

Hypnotics

benzodiazepines

chlordiazepoxide

and muscle rigidity induced by alfentanil (OA) [Weinger, Cline, Smith & Koob], 348
receptor responses in aging (OA) [Baughman, Hoffman, Albrecht & Miletich], 314

midazolam

cerebral vascular and metabolic effects of, in young and aged rats (OA) [Baughman, Hoffman, Albrecht & Miletich], 314

Hypocalcemia, See under Complications

Hypocapnia, See under Carbon dioxide

Hypoglycemia, See under Metabolism

Hypopharynx, See under Airway

Hypotension, See under Circulation; Complications

Hypothalamus, See under Brain; Temperature, regulation

Hypothermia

as complication of extracorporeal shock wave lithotripsy (CO) [Malhotra], 448

and core temperature changes during N₂O fentanyl and halothane/O₂ anesthesia (CR) [Sessler, Rubinstein & Eger], 137

induced

and pharmacologic EEG suppression during cardiopulmonary bypass (OA) [Woodcock, Murkin, Farrar, Tweed, Guiraudon & McKenzie], 218

See also under Temperature

Hypovolemia, See under Blood pressure

Hypoxia

pulmonary vascular response

high-dose almitrine bismesylate inhibits, in closed-chest dogs (OA)

- [Chen, Miller, Malmkvist, Clergue, Marshall & Marshall], 534
- pulmonary vasoconstriction**
in anesthetized dogs, comparative study between electromagnetometry and SF_6 and CO_2 elimination (LR) [Carlsson, Hedenstierna, Blomqvist & Strandberg], 240
- See also under Lung(s)**
and serotonin metabolism at low pulmonary flow (OA) [Watkins & Rannels], 916
- transient**
profound, accuracy of response of six pulse oximeters to (LR) [Severinghaus & Naifeh], 551
and ventilation/perfusion lung scans to predict oxygenation during one-lung anesthesia (CR) [Hurford, Kolker & Strauss], 841
- Hypoxia, See under Brain; Metabolism; Oxygen**

I

Ilioinguinal anesthesia, See under Anesthetic techniques

Immune response**distribution**

- and natural killer cell activity during coronary artery bypass grafting (OA) [Tønnesen, Brinkløv, Christensen, Olesen & Madsen], 526

lymphocyte function

- and natural killer cell activity during coronary artery bypass grafting (OA) [Tønnesen, Brinkløv, Christensen, Olesen & Madsen], 526

natural killer cell activity

- and natural killer cell activity during coronary artery bypass grafting (OA) [Tønnesen, Brinkløv, Christensen, Olesen & Madsen], 526

subpopulations

- and natural killer cell activity during coronary artery bypass grafting (OA) [Tønnesen, Brinkløv, Christensen, Olesen & Madsen], 526

In vitro fertilization, See under Anesthesia, obstetrics

Induced hypothermia, See under Hypothermia

Induction anesthesia, See under Anesthetic techniques

Inert gas, See under Measurement techniques

Infants, See under Anesthesia, pediatric; Surgery, pediatric
preterm, See under Age factors

Infection**pulmonary**

- in children, effects of general anesthesia on (OA) [Tait & Knight], 930

upper respiratory tract

- in children, effects of general anesthesia on (OA) [Tait & Knight], 930

viral

- in children, effects of general anesthesia on (OA) [Tait & Knight], 930

Infiltration anesthesia, See under Anesthetic techniques

Infiltration techniques, See under Anesthetic techniques

Informed consent, See under Medicolegal

Infusion anesthesia, See under Anesthetic techniques

Infusions of anesthesia, See under Anesthetics, intravenous

Inguinal anesthesia, See under Anesthetic techniques

Inhalation anesthesia, See under Anesthetic techniques

Inotropism, See under Heart

Insulin, See under Hormones

Intensive care**critical care**

- two-hour *versus* 22-hour creatinine clearance in critically ill patients (CR) [Sladen, Endo & Harrison], 1013

Interactions (drug)**atracurium**

- neuromuscular block following, effect of phenytoin on magnitude and duration of (OA) [Ornstein, Matteo, Schwartz, Silverberg, Young & Diaz], 191

barbiturates

- and benzodiazepine receptors affinity to midazolam (OA) [Kissin, Mason & Bradley], 26

benzodiazepines

- binding, midazolam-barbiturate interaction and (OA) [Kissin, Mason & Bradley], 26
inhalational anesthetics and verapamil (OA) [Chelly, Hysing, Hill, Abernethy, Diewati, Doursout & Merin], 320
morphine and fentanyl hypnotic interactions with thiopental (OA) [Kissin, Mason & Bradley], 331

phenytoin

- effect of, on magnitude and duration of neuromuscular block following atracurium or vecuronium (OA) [Ornstein, Matteo, Schwartz, Silverberg, Young & Diaz], 191

quinidine

- effect of, on plasma cholinesterase activity and succinylcholine neuromuscular blockade (CR) [Kambam, Franks, Naukam & Sastry], 858

succinylcholine

- effect of quinidine on plasma cholinesterase activity and (CR) [Kambam, Franks, Naukam & Sastry], 858

vecuronium

- neuromuscular block following, effect of phenytoin on magnitude and duration of (OA) [Ornstein, Matteo, Schwartz, Silverberg, Young & Diaz], 191

Intracranial pressure, See under Brain

Intraocular pressure, See under Eye(s)

Intrapleural anesthesia, See under Anesthetic techniques

Intravascular injection, See under Complications

Intravenous anesthetics, See under Anesthetics

Introducer sheath, See under Equipment

Intubation**awake tracheal**

- unexpected migration of esophageal foreign body (CR) [Greschner & Devitt], 565

endobronchial

- a preventable complication (CR) [Owen & Cheney], 255

endotracheal

- accidental migration of tube tip into bronchus in (CR) [Owen & Cheney], 255

complications

- sore throat and hoarseness, correlation of endotracheal tube size with, following general anesthesia (CR) [Stout, Bishop, Dwersteg & Cullen], 419
EEG spectral edge frequency changes and hemodynamic response to (CR) [Rampil & Matteo], 139

fiberoptic

- percutaneous transtracheal high-frequency jet ventilation as aid to (CR) [Boucek, Gunnerson & Tullock], 247

techniques

- selective blind endobronchial, in children and adults (CR) [Kubota, Kubota, Toyoda, Ishida, Asada & Matsuura], 587

tracheal

- difficult, airway management in (CO) [Coveler], 154
- rapid sequence, correct position of head and neck for (CO) [Tran], 861

Ionized calcium, See under Ions

Ions

calcium

- and cardiovascular effects of nifedipine or verapamil (OA) [Schulte-Sasse & Tarnow], 492

citrate

- toxicity in dogs, halothane potentiates (OA) [Coté], 676

efflux

- halothane inhibits, following myocardial ischemia in guinea pig hearts (OA) [Hoka, Bosnjak & Kampine], 197
- and hypocalcemia and prolonged QT interval following carotid artery surgery (CR) [Zane, Eisenkraft & Haimov], 998

ionized

- in anesthetic depression of myocardial contractility (RA) [Rusy & Komai], 745

paradox

- halothane inhibits, following myocardial ischemia in guinea pig hearts (OA) [Hoka, Bosnjak & Kampine], 197

transport

- effect of pH on, in presence of volatile anesthetics (LR) [Casella, Suite, Fisher & Blanck], 386

uptake

- effect of pH on, in presence of volatile anesthetics (LR) [Casella, Suite, Fisher & Blanck], 386
- halothane inhibits, following myocardial ischemia in guinea pig hearts (OA) [Hoka, Bosnjak & Kampine], 197

cardiovascular effects

- depth of halothane anesthesia potentiates (OA) [Coté], 676

magnesium

- interaction with succinylcholine-vecuronium sequence in eclampsia (CR) [Baraka & Yazigi], 806

potassium

hyperkalemia

- succinylcholine-induced, in near-drowning (CO) [Tong], 605
- succinylcholine-induced, in near-drowning (CO) [Zauder], 604
- and hyperkalemia after succinylcholine administration in closed head injury (CR) [Frankville & Drummond], 264
- low concentrations of, and intraoperative cardiac dysrhythmias in bulimic anorexia nervosa (CR) [Arnold, Rose & Stoddard], 1003

Ischemia, See under Brain; Heart

Isoflurane, See under Anesthetics, volatile

Isoproterenol, See under Sympathetic nervous system, beta adrenergic receptors

Isotopes

³¹phosphorus

- NMR spectroscopy, in assessment of mechanism of negative inotropic action of halothane (OA) [Murray, Blanck, Rogers & Jacobus], 649

K

Katz, J., and Steward, D. J. (eds.)

Anesthesia and Uncommon Pediatric Disease (BR), 616

Ketamine, See under Anesthetics, intravenous

Ketanserin, See under Antagonists, serotoninergic

Keyed filling devices, See under Equipment

Kidney

creatinine clearance

- two-hour versus 22-hour, in critically ill patients (CR) [Sladen, Endo & Harrison], 1013

transplantation

- malignant hyperthermia in (CR) [Byers & Merin], 979
- Kinetics, See under Pharmacokinetics**

L

Labetalol, See under Pharmacology; Sympathetic nervous system, sympatholytic agents

Lactate, See under Acid-base equilibrium; Brain; Metabolism

Laryngoscope, See under Equipment

Laryngoscopy, See under Larynx

Laryngospasm, See under Complications

Larynx

laryngoscopy

- direct, to relieve airway obstruction in mediastinal mass (CR) [de Soto], 116

Laser

fire

- of endotracheal tubes (LR) [Wolf & Simpson], 236

Left atrial pressure, See under Blood pressure

Levy, J.M.

Anaphylactic Reactions in Anaesthesia and Intensive Care (BR), 450

Lidocaine, See under Anesthetics, local; Pharmacokinetics

Ligand, See under Sympathetic nervous system

Light in operating room, See under Operating rooms

Ligneous tracheobronchitis, See under Airway

Lithotripsy

extracorporeal shock wave, See under Kidney; Surgery

Liver

blood flow

- during halothane or isoflurane in guinea pigs (OA) [Hursh, Gelman & Bradley], 701

hepatotoxicity

- in repeated halothane anesthetics in hypoxic rat model (OA) [Plummer, Hall, Jenner & Cousins], 355

oxygen supply

- during halothane or isoflurane in guinea pigs (OA) [Hursh, Gelman & Bradley], 701

toxicity

- and death following isoflurane anesthesia (CR) [Carrigan & Straughen], 581

See also under Toxicity

Liver transplantation, See under Surgery

Low-back pain, See under Pain

Low-flow anesthesia, See under Anesthetics

Lumbar epidural anesthesia, See under Anesthetic techniques, regional

Lung blood flow, See under Measurement techniques

Lung(s)

atelectasis

- in use of halothane and isoflurane during one-lung ventilation for thoracotomy (OA) [Benumof, Augustine & Gibbons], 910

blood flow

- in anesthetized dogs, comparative study between electromagnetometry and SF₆ and CO₂ elimination (LR) [Carlsson, Hedenstierna, Blomqvist & Strandberg], 240

- in high-dose almitrine inhibition of hypoxic pulmonary vasoconstriction (OA) [Chen, Miller, Malmkvist, Clergue, Marshall & Marshall], 534

- low, serotonin metabolism at (OA) [Watkins & Rannels], 916

pulmonary capillary pressure

- simple method to determine (CO) [Cope, Allison & Taylor], 866

- in use of halothane and isoflurane during one-lung ventilation for thoracotomy (OA) [Benumof, Augustine & Gibbons], 910
- bronchopleural fistula**
craniotomy for tumor in (CR) [Gutstein & Koblin], 804
- compliance**
and systolic pressure variation indicating hypovolemia in graded hemorrhage (OA) [Perel, Pizov & Cotev], 498
- drug uptake**
first pass, of fentanyl, meperidine, and morphine (OA) [Roerig, Kotrly, Vucins, Ahlf, Dawson & Kampine], 466
- edema**
intraoperative re-expansion (CR) [Disederio, Meister & Bedford], 821
- functional residual capacity**
measurement, by sulfur hexafluoride washout (LR) [Larsson, Linnarsson, Jonmarker, Jonson, Larsson & Werner], 543
and reduction of tonic ribcage muscle activity by anesthesia with thiopental (OA) [Drummond], 695
and high-frequency jet ventilation during thoracic surgical procedures (CR) [Howland, Carlon, Goldiner, Rooney, Conception, Bains & McCormack], 1009
- hypoxic pulmonary vasoconstriction**
in anesthetized dogs, comparative study between electromagnetometry and SF₆ and CO₂ elimination (LR) [Carlsson, Hedenstierna, Blomqvist & Strandberg], 240
high-dose almitrine bismesylate inhibits, in closed-chest dogs (OA) [Chen, Miller, Malmkvist, Clergue, Marshall & Marshall], 534
- metabolism**
of serotonin at low pulmonary flow (OA) [Watkins & Rannels], 916
- non-cardiogenic pulmonary edema**
effect of nitroprusside on, in hydrochloric acid aspiration (OA) [Gottlieb, Wood, Hansen & Long], 203
- obstructive pulmonary disease**
and sequential one-lung ventilation for bilateral bullectomy (CR) [Benumof], 268
- oxygen**
in use of halothane and isoflurane during one-lung ventilation for thoracotomy (OA) [Benumof, Augustine & Gibbons], 910
- respiratory distress syndrome**
effect of nitroprusside on, in hydrochloric acid aspiration (OA) [Gottlieb, Wood, Hansen & Long], 203
- serotonin**
metabolism at low pulmonary flow (OA) [Watkins & Rannels], 916
- shunt**
effect of nitroprusside on, in hydrochloric acid aspiration (OA) [Gottlieb, Wood, Hansen & Long], 203
- shunting**
in high-dose almitrine inhibition of hypoxic pulmonary vasoconstriction (OA) [Chen, Miller, Malmkvist, Clergue, Marshall & Marshall], 534
in use of halothane and isoflurane during one-lung ventilation for thoracotomy (OA) [Benumof, Augustine & Gibbons], 910
- vascular conductance**
in high-dose almitrine inhibition of hypoxic pulmonary vasoconstriction (OA) [Chen, Miller, Malmkvist, Clergue, Marshall & Marshall], 534
- washout**
sulfur hexafluoride, measurement to lung volume by (LR) [Larsson, Linnarsson, Jonmarker, Jonson, Larsson & Werner], 543

Lunn, J.N. (ed.)

Epidemiology in Anesthesia: The Techniques of Epidemiology Applied to Anesthetic Practice (BR), 450

Lymphocyte function, See under Immune response

M

MAC, See under Anesthesia, requirements; Potency, anesthetic

Magnesium, See under Ions

Magnetic resonance spectroscopy, See under Measurement techniques

Malignant hyperthermia, See under Hyperthermia

Manpower

no evidence that anesthesiologists enhance care of parturient (CO) [Levinson, Shnider & Gibbs], 152

no evidence that anesthesiologists enhance care of parturient (CO) [Singer], 152

Mask(s), See under Equipment

Mass spectrometer, See under Equipment

Mass spectrometry, See under Monitoring

Masseter muscle, See under Muscle

Masseter spasm, See under Complications

Masticatory muscles, See under Muscle

Maternal hemodynamics, See under Hemodynamics

Mean arterial blood pressure, See under Hemodynamics

Measurement techniques**algorithms**

for accurate, automated, continuously displayed pulmonary artery pressure measurement (OA) [Mitchell, Meathe, Jones, Donch, Ricks, Benumof & Saidman], 294

cardiac output

invasive versus 2D-echocardiography for (OA) [Thys, Hillel, Goldman, Mindich & Kaplan], 630

computed tomography

cervical, use of endotracheal tube without radiopaque marker for (CO) [Tashiro & Yagi], 1022

computerized monitoring

for accurate, automated, continuously displayed pulmonary artery pressure measurement (OA) [Mitchell, Meathe, Jones, Donch, Ricks, Benumof & Saidman], 294

in measurement of central vascular pressures (EV) [Teplick], 289

Doppler echocardiography

in study of effect of halothane and isoflurane on cardiac function in infants and small children (OA) [Murray, Vandewalker, Matherne & Mahoney], 211

echocardiography

in study of transpulmonary passage of venous air emboli (OA) [Yahagi & Furuya], 905

electromyography

and ketanserin pretreatment reverses alfentanil-induced muscle rigidity (OA) [Weinger, Cline, Smith & Koob], 348

flow proportional admixture

and measurement of lung volume by sulfur hexafluoride washout (LR) [Larsson, Linnarsson, Jonmarker, Jonson, Larsson & Werner], 543

gas chromatography

in study of assay methods for fentanyl in serum (LR) [Woestenborghs, Stanski, Scott & Heykants], 85

inert gas

in anesthetized dogs, comparative study between electromagnetometry and SF₆ and CO₂ elimination (LR) [Carlsson, Hedenstierna, Blomqvist & Strandberg], 240

lung blood flow

in anesthetized dogs, comparative study between electromagne-

- ometry and SF₆ and CO₂ elimination (LR) [Carlsson, Hedenstierna, Blomqvist & Strandberg], 240
- magnetic resonance spectroscopy**
new techniques, new opportunities, old problems (EV) [Smith & Chance], 157
- neuromuscular blockade**
in study of succinylcholine and atracurium on diaphragm and adductor pollicis muscle in humans (OA) [Pansard, Chauvin, Lebrault, Gauneau & Duvaldestin], 326
- NMR spectroscopy**
³¹phosphorus, in assessment of mechanism of negative inotropic action of halothane (OA) [Murray, Blanck, Rogers & Jacobus], 649
- nuclear magnetic resonance spectroscopy**
of halothane uptake and elimination in rat brain (OA) [Litt, González-Méndez, James, Sessler, Mills, Chew, Moseley, Pereira, Severinghaus & Hamilton], 161
in vivo ¹⁹F, in study of isoflurane elimination from rabbit brain (OA) [Mills, Sessler, Moseley, Chew, Pereira, James & Litt], 169
- Pitot tube**
modified, for measurement of tidal volume in children (LR) [Wolf & Volgyesi], 775
- pulmonary artery pressure**
for accurate, automated, continuously displayed pulmonary artery pressure measurement (OA) [Mitchell, Meathe, Jones, Donch, Ricks, Benumof & Saidman], 294
- pulmonary capillary pressure**
simple method to determine (CO) [Cope, Allison & Taylor], 866
- pulse oximetry**
signal detection, blood flow limits and (CR) [Lawson, Norley, Korbon, Loeb & Ellis], 599
- radioimmunoassay**
in study of assay methods for fentanyl in serum (LR) [Woestenborghs, Stanski, Scott & Heykants], 85
- sulfur hexafluoride**
washout, measurement of lung volume by (LR) [Larsson, Linnarsson, Jonmarker, Jonson, Larsson & Werner], 543
- transdiaphragmatic pressure**
in study of succinylcholine and atracurium on diaphragm and adductor pollicis muscle in humans (OA) [Pansard, Chauvin, Lebrault, Gauneau & Duvaldestin], 326
- two-dimensional echocardiography**
in study of effect of halothane and isoflurane on cardiac function in infants and small children (OA) [Murray, Vandewalker, Matherne & Mahoney], 211
- ventilation and perfusion lung scintigraphy**
to predict oxygenation during ong-lung anesthesia (CR) [Hurford, Kolker & Strauss], 841
- Mechanical ventilation, See under Ventilation**
- Mediastinal mass**
direct laryngoscopy to relieve airway obstruction in (CR) [de Soto], 116
- Medicolegal**
informed consent
clinical research and (CO) [Harte], 143
clinical research and (CO) [Tarnow], 144
- Memory**
amnesia
following midazolam in obstetric anesthesia (CO) [Seidman & Marx], 443
- Meperidine, See under Analgesics; Anesthetics, intravenous**
- Mepivacaine, See under Anesthetics, local**
- Metabolic rate of oxygen, See under Oxygen**
- Metabolism**
adenosine diphosphate
and halogenated anesthetics influence on isolated hepatocytes from phenobarbital-treated rats (OA) [Becker, Miletich & Albrecht], 185
- adenosine triphosphate**
and halogenated anesthetics influence on isolated hepatocytes from phenobarbital-treated rats (OA) [Becker, Miletich & Albrecht], 185
- anorexia nervosa**
intraoperative cardiac dysrhythmias in (CR) [Arnold, Rose & Stoddard], 1003
- bulimia**
intraoperative cardiac dysrhythmias in (CR) [Arnold, Rose & Stoddard], 1003
- diazoxide**
in severe hyperinsulinism, in infant receiving anesthesia for pancreatectomy (CR) [Yamashita & Tsuneto], 985
- enzyme induction**
and halogenated anesthetics influence on isolated hepatocytes from phenobarbital-treated rats (OA) [Becker, Miletich & Albrecht], 185
- free fatty acids**
in malignant hyperthermia susceptible subjects, effects of graded exercise on leg exchange of (OA) [Rutberg, Hakanson, Hall & Jorfeldt], 308
- glucose**
in malignant hyperthermia susceptible subjects, effects of graded exercise on leg exchange of (OA) [Rutberg, Hakanson, Hall & Jorfeldt], 308
and reevaluation of intraoperative use of (MI) [Sieber, Smith, Traystman & Wollman], 72
- glycogen**
in malignant hyperthermia susceptible subjects, effects of graded exercise on leg exchange of (OA) [Rutberg, Hakanson, Hall & Jorfeldt], 308
- hyperglycemia**
and reevaluation of intraoperative glucose use (MI) [Sieber, Smith, Traystman & Wollman], 72
- hyperinsulinemia**
and reevaluation of intraoperative glucose use (MI) [Sieber, Smith, Traystman & Wollman], 72
- hyperinsulinism**
treated by pancreatectomy, anesthesia for infant with (CR) [Yamashita & Tsuneto], 985
- hypoglycemia**
and reevaluation of intraoperative glucose use (MI) [Sieber, Smith, Traystman & Wollman], 72
treated by pancreatectomy, anesthesia for infant with (CR) [Yamashita & Tsuneto], 985
- hypoxia**
and halogenated anesthetics influence on isolated hepatocytes from phenobarbital-treated rats (OA) [Becker, Miletich & Albrecht], 185
- lactate**
in malignant hyperthermia susceptible subjects, effects of graded exercise on leg exchange of (OA) [Rutberg, Hakanson, Hall & Jorfeldt], 308
and reevaluation of intraoperative glucose use (MI) [Sieber, Smith, Traystman & Wollman], 72
- lactate formation**
and halogenated anesthetics influence on isolated hepatocytes from phenobarbital-treated rats (OA) [Becker, Miletich & Albrecht], 185

oxidative

of halothane, in cirrhotic rats (OA) [Baden, Serra, Fujinaga & Mazze], 660

oxidative phosphorylation

in lidocaine dosage in dogs anesthetized with isoflurane (OA) [Milde & Milde], 180

oxygen consumption

effect of halothane on, in anesthetized newborn lamb (OA) [Hershenson, O'Rourke, Schena & Crone], 174

and halogenated anesthetics influence on isolated hepatocytes from phenobarbital-treated rats (OA) [Becker, Miletich & Albrecht], 185

in malignant hyperthermia susceptible subjects, effects of graded exercise on leg exchange of (OA) [Rutberg, Hakanson, Hall & Jorfeldt], 308

reductive

of halothane, in cirrhotic rats (OA) [Baden, Serra, Fujinaga & Mazze], 660

Metabolism, See under Brain**Methohexital, See under Anesthetics, intravenous****Methylmethacrylate, See under Surgery****Methylprednisolone, See under Hormones****Metoclopramide, See under Pharmacology****Metocurine, See under Neuromuscular relaxants****Metohexital, See under Anesthetics, intravenous****Midazolam, See under Anesthetics, intravenous; Pharmacodynamics; Pharmacokinetics; Sedation; Hypnotics; Premedication****Monitoring****blood pressure**

with DinamapTM, caution when using different cuffs with (CO) [Peterson], 607

central venous pressure

during cesarean section (CO) [Robinson, Bunegin & Albin], 147

during cesarean section (CO) [Rupp], 146

computerized EEG

is it a useful monitor during cardiac surgery? (CR) [El-Fiki & Fish], 575

echocardiography

two-dimensional *versus* invasive, for hemodynamic indices (OA) [Thys, Hillel, Goldman, Mindich & Kaplan], 630

electrocardiography

in addition of nitrous oxide to fentanyl in patients with ischemic heart disease (OA) [Cahalan, Prakash, Rulf, Cahalan, Mayala, Lurz, Rosseel, Lachitjaran, Siphanto, Gussenhoven & Roelandt], 925

fetal

modification of, as hazardous (CO) [Sand], 448

QT interval

prolongation of, in association with large doses of opiates (CO) [Blair, Pruett, Crumrine & Balser], 442

electroencephalography

during cardiopulmonary bypass (OA) [Woodcock, Murkin, Farrar, Tweed, Guiraudon & McKenzie], 218

changes in response to laryngoscopy and intubation (CR) [Rampil & Matteo], 139

is it a useful monitor during cardiac surgery? (CR) [El-Fiki & Fish], 575

quantitative analysis, closed-loop feedback control of methohexital anesthesia (OA) [Schwilden, Schüttler & Stoeckel], 341

seizure activity, myoclonus following sufentanil without (CR) [Bowdle], 593

end-tidal concentration

and minimum alveolar concentration of isoflurane in preterm neonates (OA) [Le Dez & Lerman], 301

evoked potentials**visual**

effects of fentanyl anesthesia on (CR) [Chi, McCoy & Field], 827

mass spectrometry

one-way leak in sampling system in (CO) [Koeber & Munster], 606

nerve

in assessment of level of spinal anesthesia (CR) [Meyer & McCune], 125

oximetry

preventing ambient light from affecting (CO) [Siegel & Gravenstein], 280

reusing Nellcor pulse probe in (CO) [Kao & Badgwell], 866

during shoulder arthroscopy (CO) [Gibbs, Handal & Nentwig], 150

oxygen

dyes and pulse oximeter (CO) [Eide, Humayun-Scott & Poppers], 149

dyes and pulse oximeter (CO) [Unger & Scheller], 148

pulmonary artery

influence of balloon inflation and deflation on location of pulmonary artery catheter tip (CR) [Johnston, Royster, Vinten-Johansen, Gravelle, Howard, Mills & Tucker], 110

pulmonary artery pressure

for accurate, automated, continuously displayed pulmonary artery pressure measurement (OA) [Mitchell, Meathe, Jones, Donch, Ricks, Benumof & Saidman], 294

pulse oximetry

accuracy of response of, to profound hypoxia (LR) [Severinghaus & Naifeh], 551

artifact

ambient light affects (CO) [Hanowell, Eisele & Downs], 864

ambient light affects (CO) [Swedlow, Running & Feaster], 865

effects of, on incidence of anesthesia complications (OA) [Cooper, Cullen, Nemeskai, Hoaglin, Gevirtz, Csete & Venable], 686

falsely normal saturation reading with (CR) [Costarino, Davis & Keon], 830

in infants, burn, erosion, and "sun" tan with use of (CR) [Miyasaka & Ohata], 1008

pulsed Doppler

ascending aortic, carotid, branchial and femoral artery blood flows during caudal anesthesia in infants (OA) [Payen, Ecoffey, Carli & Dubouset], 681

spectral edge frequency

changes in response to laryngoscopy and intubation (CR) [Rampil & Matteo], 139

stimulator

in assessment of level of spinal anesthesia (CR) [Meyer & McCune], 125

temperature

during extracorporeal shock wave lithotripsy (CO) [Malhotra], 448

transesophageal echocardiography

in addition of nitrous oxide to fentanyl in patients with ischemic heart disease (OA) [Cahalan, Prakash, Rulf, Cahalan, Mayala, Lurz, Rosseel, Lachitjaran, Siphanto, Gussenhoven & Roelandt], 925

Monitoring lumens, See under Equipment**Monitor(s), See under Equipment****Morphine, See under Analgesics****Motor nerve endings, See under Neuromuscular junction****Muscle**

activity, tonic ribcage, reduction of, by anesthesia with thiopental (OA) [Drummond], 695

- adductor pollicis**
 - effect of intubating dose of succinylcholine and atracurium on (OA) [Pansard, Chauvin, Lebrault, Gauneau & Duvaldestin], 326
- cardiac**
 - in anesthetic depression of myocardial contractility (RA) [Rusy & Komai], 745
 - effect of volatile anesthetics on pH dependence of calcium uptake by (LR) [Casella, Suite, Fisher & Blanck], 386
- diaphragm**
 - effect of intubating dose of succinylcholine and atracurium on (OA) [Pansard, Chauvin, Lebrault, Gauneau & Duvaldestin], 326
- hyperactivity**
 - after general anesthesia, intraocular pressure changes during (CO) [Grover, Mahajan & Sharma], 604
 - after general anesthesia, intraocular pressure changes during (CO) [Williams], 604
- masseter**
 - rigidity, following succinylcholine (EV) [Rosenberg], 453
 - spasm, increased incidence of, in children with strabismus anesthetized with halothane and succinylcholine (CR) [Carroll], 559
- masticatory**
 - effects of succinylcholine on (OA) [Van Der Spek, Fang, Ashton-Miller, Stohler, Carlson & Schork], 459
- rigidity**
 - ketanerin pretreatment reverses alfentanil-induced (OA) [Weinger, Cline, Smith & Koob], 348
- sarcolemma**
 - anesthetic depression of (RA) [Rusy & Komai], 745
- sarcoplasmic reticulum**
 - anesthetic depression of (RA) [Rusy & Komai], 745
 - effect of volatile anesthetics on pH dependence of calcium uptake by (LR) [Casella, Suite, Fisher & Blanck], 386
- skeletal**
 - fasciculation(s)**
 - and "defasciculation" with metocurine in prevention of increased intracranial pressure (OA) [Stirt, Grosslight, Bedford & Vollmer], 50
 - neostigmine-induced, suppression of, by vecuronium and isoflurane (OA) [Baker & Stanec], 942
 - myoglobin**
 - in acute rhabdomyolysis following halothane anesthesia with succinylcholine (CR) [Rubiano, Chang, Carroll, Sonbolian & Larson], 856
- Mutagenicity, See under Toxicity**
- Myocardial blood flow, See under Heart**
- Myocardial contractility, See under Heart**
- Myocardial dysfunction, See under Complications**
- Myocardial function, See under Heart**
- Myocardial ischemia, See under Heart**
- Myoclonus, See under Complications**
- Myofibrils, See under Heart**
- Myoglobin, See under Muscle, skeletal**

N

- Narcotic anesthesia, See under Anesthetics, intravenous**
- Narcotics, See under Analgesics**
- Natural killer cell activity, See under Immune response**
- Natural spike activity, See under Nerve(s)**
- Nausea, See under Vomiting**
- Near-drowning, See under Complications**
- Needle(s), See under Equipment**

- Negative inotropism, See under Heart**
- Neonates, See under Anesthesia, pediatric**
- Neostigmine, See under Antagonists, neuromuscular relaxants**
- Nerve(s)**
 - axon**
 - mammalian, use-dependent block in (OA) [Fink & Cairns], 477
 - block, See under Anesthetic techniques, regional**
 - conduction block**
 - duration of action of triethylldodecyl ammonium bromide on (OA) [Lipfert, Seitz & Arndt], 896
 - differential nerve block**
 - in single mammalian axons (OA) [Fink & Cairns], 477
 - electrophysiology**
 - and differential use-dependent effects in single mammalian axons (OA) [Fink & Cairns], 477
 - frequency-dependent block**
 - in mammalian axons (OA) [Fink & Cairns], 477
 - monitoring, See under Monitoring**
 - natural spike activity**
 - duration of action of triethylldodecyl ammonium bromide on (OA) [Lipfert, Seitz & Arndt], 896
 - use-dependent block**
 - in mammalian axons (OA) [Fink & Cairns], 477
- Neuroleptic malignant syndrome, See under Hyperthermia, malignant**
- Neurologic deficit, See under Complications**
- Neurologic surgery, See under Surgery**
- Neuromuscular antagonists, See under Antagonists**
- Neuromuscular blockade, See under Measurement techniques**
- Neuromuscular disease, See under Complications**
- Neuromuscular junction**
 - effect of intubating dose of succinylcholine and atracurium on (OA) [Pansard, Chauvin, Lebrault, Gauneau & Duvaldestin], 326
- motor nerve endings**
 - mammalian, drug actions at (OA) [Baker & Stanec], 924
- Neuromuscular relaxants**
 - atracurium**
 - effect of intubating dose of, on diaphragm and adductor pollicis muscle in humans (OA) [Pansard, Chauvin, Lebrault, Gauneau & Duvaldestin], 326
 - heart rate and rhythm following edrophonium/atropine mixture for antagonism of (CR) [Urquhart, Ramsey, Royster, Morell & Gerr], 561
 - isomers**
 - pharmacokinetics of, *in vitro* and in humans (OA) [Tsui, Graham & Torda], 722
 - neuromuscular block following, effect of phenytoin on magnitude and duration of (OA) [Ornstein, Matteo, Schwartz, Silverberg, Young & Diaz], 191
 - sensitivity of adductor pollicis and diaphragm muscles to, in hemiplegic patient (CR) [Laycock, Smith, Donati & Bevan], 851
- desensitization block**
 - in succinylcholine administration in guinidine therapy (CR) [Kambam, Franks, Naukam & Sastry], 858
- dual block**
 - in succinylcholine administration in guinidine therapy (CR) [Kambam, Franks, Naukam & Sastry], 858
- metocurine**
 - "defasciculation" with, in prevention of intracranial pressure (OA) [Stirt, Grosslight, Bedford & Vollmer], 50

pancuronium

- effects of, on mouth opening (OA) [Van Der Spek, Fang, Ashton-Miller, Stohler, Carlson & Schork], 459
- in isoflurane anesthesia in dogs, hemodynamic effects of UL-FS 49 and propranolol in (OA) [Riley, Gross, Kampine & Warltier], 707
- kinetics and dynamics in elderly (OA) [Rupp, Castagnoli, Fisher & Miller], 45

phase II block

- in succinylcholine administration in guinidine therapy (CR) [Kambam, Franks, Naukam & Sastry], 858

prejunctional site of action

- at mammalian motor nerve endings (OA) [Baker & Stanec], 942

succinylcholine

- and atypical serum cholinesterase eliminated by orthotopic liver transplantation (CR) [Khoury, Brill, Walts & Busuttil], 273
- effect of intubating dose of, on diaphragm and adductor pollicis muscle in humans (OA) [Pansard, Chauvin, Lebrault, Gauneau & Duvaldestin], 326
- effect of quindine on plasma cholinesterase activity and (CR) [Kambam, Franks, Naukam & Sastry], 858
- effects of, on mouth opening (OA) [Van Der Spek, Fang, Ashton-Miller, Stohler, Carlson & Schork], 459
- hyperkalemia after, in closed head injury without paresis (CR) [Frankville & Drummond], 264
- hyperkalemia induced by, in near-drowning (CO) [Tong], 605
- hyperkalemia induced by, in near-drowning (CO) [Zauder], 604
- intracranial pressure induced by, metocurine in prevention of (OA) [Stirt, Grosslight, Bedford & Vollmer], 50
- magnesium interaction with, in eclampsia (CR) [Baraka & Yazigi], 806
- masseter spasm in children with strabismus anesthetized with (CR) [Carroll], 559
- second dose of, effect on cardiac rate and rhythm following etomidate or midazolam induction (CR) [Abdul-Rasool, Sears & Katz], 795
- trismus following (EV) [Rosenberg], 453

vecuronium

- continuous infusion of: effect of anesthetic agents (OA) [Cannon, Fahey, Castagnoli, Furuta, Canfell, Sharma & Miller], 503
- effect of, on intracranial pressure and hemodynamics (CR) [Stirt, Maggio, Haworth, Minton & Bedford], 570
- effects of, on mouth opening (OA) [Van Der Spek, Fang, Ashton-Miller, Stohler, Carlson & Schork], 459
- heart rate and rhythm following edrophonium/atropine mixture for antagonism of (CR) [Urquhart, Ramsey, Royster, Morell & Gerr], 561
- kinetics and dynamics in elderly (OA) [Rupp, Castagnoli, Fisher & Miller], 45
- magnesium interaction with, in eclampsia (CR) [Baraka & Yazigi], 806
- neuromuscular block following, effect of phenytoin on magnitude and duration of (OA) [Ornstein, Matteo, Schwartz, Silverberg, Young & Diaz], 191
- priming, histaminoid reaction from (CR) [Durrani & O'Hara], 130
- and prolonged neuromuscular blockade in postpartum patients (CR) [Camp, Tessem, Adenwala & Joyce], 1006
- in suppression of neostigmine-induced fasciculations (OA) [Baker & Stanec], 942

Neurosurgical anesthesia, See under Anesthesia

Neurotoxicity, See under Toxicity

Nifedipine, See under Anesthetic techniques, hypotension, induced

Nimodipine, See under Calcium entry blockers

Nitroprusside, See under Anesthetic techniques, hypotension, induced; Pharmacology

Nitrous oxide, See under Anesthetics, gases

NMR spectroscopy, See under Measurement techniques

Non-cardiogenic pulmonary edema, See under Lung(s)

Norepinephrine, See under Sympathetic nervous system, catecholamines

Nuclear magnetic resonance spectroscopy, See under Measurement techniques

Nuwer, M. R. (ed.)

Evoked Potential Monitoring in the Operating Room (BR), 873

O

Obstetric analgesia, See under Analgesia

Obstetric anesthesia, See under Anesthesia

Obstructive pulmonary disease, See under Lung(s)

One-lung ventilation, See under Anesthetic techniques; Ventilation

Operating rooms**light**

- affects pulse oximeters (CO) [Hanowell, Eisele & Downs], 864
- affects pulse oximeters (CO) [Swedlow, Running & Feaster], 865

Ophthalmology, See under Surgery

Opisthotonus, See under Brain

Organizations

American Society of Anesthesiologists

ASA award: B. Raymond Fink (SA), 456

symposium on "Exploring Ethical Issues in Critical Care Medicine" (SM) [Groeger], 1029

Orthopedic surgery, See under Surgery

Osmolality, See under Fluid balance

Outpatient anesthesia, See under Anesthesia

Oxidative metabolism, See under Metabolism

Oxidative phosphorylation, See under Metabolism

Oximeter, See under Equipment

Oximetry, See under Monitoring

Oxygen**blood levels**

- in high-dose almitrine inhibition of hypoxic pulmonary vasoconstriction (OA) [Chen, Miller, Malmkvist, Clergue, Marshall & Marshall], 534

delivery

- pulse oximeter signal detection, blood flow limits and (CR) [Lawson, Norley, Korbon, Loeb & Ellis], 599
- enriched atmosphere, flammability of endotracheal tubes (LR) [Wolf & Simpson], 236

hypoxia

- falsely normal saturation reading with pulse oximeter in (CR) [Costarino, Davis & Keon], 830

monitoring, See under Monitoring

Oxygen consumption, See under Brain; Metabolism

Oxygen dissociation curve, See under Blood

Oxygen saturation, See under Blood

P**Pain****low-back**

- epidural morphine and methylprednisolone for (CR) [Dallas, Lin, Wu & Wolskee], 408

placebo

- normal saline as, and stellate ganglion block (CR) [Haddox & Kettler], 832

postoperative

- caudal and ilioinguinal/iliohypogastric nerve blocks in children (CO) [Fell, Derrington & Wandless], 1020

- caudal and ilioinguinal/iliohypogastric nerve blocks in children (CO) [Hannallah, Broadman, Belman, Abramowitz & Epstein], 1021
- in children, continuous epidural infusion of bupivacaine for (CR) [Desparmet, Meistelman, Barre & Saint-Maurice], 108
- following circumcision, topical analgesia for relief of (CR) [Tree-trakarn, Pirayavaraporn & Lertakyamanee], 395
- following thoracotomy, continuous epidural analgesia (CR) [Logas, El-Baz, El-Ganzouri, Cullen, Staren, Faber & Ivankovich], 787
- Pancreatectomy, See under Surgery**
- Pancuronium, See under Neuromuscular relaxants**
- Parasympathetic nervous system**
- atropine**
- edrophonium mixture, for antagonism of neuromuscular blockade, heart rate and rhythm following (CR) [Urquhart, Ramsey, Royster, Morell & Gerr], 561
- Pediatric anesthesia, See under Anesthesia**
- Pediatric surgery, See under Surgery**
- Pediatrics**
- blood pressure**
- with DinamapTM, caution when using different cuffs with (CO) [Peterson], 607
- premature**
- do premature infants require anesthesia for surgery? (EV) [Berry & Gregory], 291
- PEEP, See under Ventilation**
- PEEP valve, See under Equipment**
- Pentobarbital, See under Anesthetics, intravenous**
- Peripheral blood flows, See under Heart**
- Petty, C. (ed.)
- The Anesthesia Machine* (BR), 872
- pH and H⁺ distributions, See under Acid-base equilibrium**
- pH, See under Acid-base equilibrium; Airway**
- Pharmacodynamics**
- atracurium**
- neuromuscular block following, effect of phenytoin on magnitude and duration of (OA) [Ornstein, Matteo, Schwartz, Silverberg, Young & Diaz], 191
- Cpss50**
- pancuronium and vecuronium kinetics and dynamics and (OA) [Rupp, Castagnoli, Fisher & Miller], 45
- depth of anesthesia**
- with methohexital (OA) [Schwilden, Schüttler & Stoeckel], 341
- midazolam**
- following cardiac surgery (CR) [Westphal, Cheng, White, Sladen, Rosenthal & Sung], 257
- vecuronium**
- neuromuscular block following, effect of phenytoin on magnitude and duration of (OA) [Ornstein, Matteo, Schwartz, Silverberg, Young & Diaz], 191
- Pharmacokinetics**
- adaptive feedback control**
- of methohexital anesthesia by quantitative EEG analysis in humans (OA) [Schwilden, Schüttler & Stoeckel], 341
- alfentanil**
- in children (OA) [Goresky, Koren, Sabourin, Sale & Strunin], 654
- arterial and venous blood sampling**
- and effects of halothane on propranolol concentrations in dog (OA) [Gordon, Wood, Koshakji, Wilkinson, Dupont & Wood], 225
- atracurium**
- isomers, in vitro and in humans (OA) [Tsui, Graham & Torda], 722
- epidural meperidine**
- in humans, comparative studies (EV) [Cousins], 875
- in humans, comparative study (OA) [Sjöström, Hartvig, Persson & Tamsen], 877
- epidural morphine**
- in humans, comparative studies (EV) [Cousins], 875
- in humans, comparative study (OA) [Sjöström, Hartvig, Persson & Tamsen], 877
- of fentanyl, meperidine, and morphine in human lung (OA) [Roerig, Kotrly, Vucins, Ahlf, Dawson & Kampine], 466
- of halothane uptake and elimination in rat brain (OA) [Litt, González-Méndez, James, Sessler, Mills, Chew, Moseley, Pereira, Severinghaus & Hamilton], 161
- intrathecal bupivacaine (CR) [Seltzer, Larjani, Goldberg & Marr], 798
- intrathecal meperidine**
- in humans, comparative studies (EV) [Cousins], 875
- in humans, comparative study (OA) [Sjöström, Tamsen, Persson & Hartvig], 889
- intrathecal morphine**
- in humans, comparative studies (EV) [Cousins], 875
- in humans, comparative study (OA) [Sjöström, Tamsen, Persson & Hartvig], 889
- of isoflurane elimination from rabbit brain, ¹⁹F nuclear magnetic resonance study of (OA) [Mills, Sessler, Moseley, Chew, Pereira, James & Litt], 169
- kinetics**
- of pancuronium and vecuronium in elderly (OA) [Rupp, Castagnoli, Fisher & Miller], 45
- lidocaine**
- influence of right-to-left cardiac shunt on (OA) [Bokesch, Castaneda, Ziemer & Wilson], 739
- midazolam**
- following cardiac surgery (CR) [Westphal, Cheng, White, Sladen, Rosenthal & Sung], 257
- models**
- and closed-loop feedback control of methohexital anesthesia by quantitative EEG analysis (OA) [Schwilden, Schüttler & Stoeckel], 341
- of pancuronium and vecuronium in elderly (OA) [Rupp, Castagnoli, Fisher & Miller], 45
- opioids**
- spinal, in humans, comparative effects of (EV) [Cousins], 875
- propranolol**
- distribution in dog, halothane and (OA) [Gordon, Wood, Koshakji, Wilkinson, Dupont & Wood], 225
- theory**
- Plasma Drug Efflux (OA) [Crankshaw, Boyd & Bjorksten], 32
- vecuronium**
- continuous infusion of: effect of anesthetic agents (OA) [Cannon, Fahey, Castagnoli, Furuta, Canfell, Sharma & Miller], 503
- verapamil**
- and inhalational anesthetics (OA) [Chelly, Hysing, Hill, Abernethy, Diewati, Doursout & Merin], 320
- Pharmacology**
- almitrine bismesylate**
- high-dose, inhibits hypoxic pulmonary vasoconstriction in closed-chest dogs (OA) [Chen, Miller, Malmkvist, Clergue, Marshall & Marshall], 534
- barbiturates**
- and benzodiazepine receptors affinity to midazolam (OA) [Kissin, Mason & Bradley], 26
- benzodiazepines**
- binding, midazolam-barbiturate interaction and (OA) [Kissin, Mason & Bradley], 26
- calcium channel blocking drugs**
- verapamil**
- and inhalational anesthetics (OA) [Chelly, Hysing, Hill, Abernethy, Diewati, Doursout & Merin], 320

- calcium entry blocking drugs**
and α -receptor responsiveness (OA) [Massagee, McIntyre, Kates, Reves & Bai], 485
- clonidine**
effect of, on perioperative hemodynamics and isoflurane requirements (OA) [Ghignone, Calvillo & Quintin], 3
reduced narcotic requirement by, and hemodynamics in coronary bypass surgery (OA) [Flacke, Bloor, Flacke, Wong, Dazza, Stead & Laks], 11
- diltiazem**
during enflurane anesthesia, impaired myocardial conduction in patients receiving (CR) [Hantler, Wilton, Learned, Hill & Knight], 94
- drug interactions**
atracurium
neuromuscular block following, effect of phenytoin on magnitude and duration of (OA) [Ornstein, Matteo, Schwartz, Silverberg, Young & Diaz], 191
phenytoin
effect of, on magnitude and duration of neuromuscular block following atracurium or vecuronium (OA) [Ornstein, Matteo, Schwartz, Silverberg, Young & Diaz], 191
vecuronium
neuromuscular block following, effect of phenytoin on magnitude and duration of (OA) [Ornstein, Matteo, Schwartz, Silverberg, Young & Diaz], 191
- ganglionic blocking drugs**
chlorisondamine
in study of inhalational anesthetics and verapamil (OA) [Chelly, Hysing, Hill, Abernethy, Diawati, Doursout & Merin], 320
- labetalol**
intravenous, for treatment of postoperative hypertension (CR) [Leslie, Kalayjian, Sirgo, Plachetka & Watkins], 413
- metoclopramide**
preoperative, unusual reaction to (CR) [Caldwell, Rains & McKitterick], 854
- nifedipine**
cardiovascular effects of, prior to coronary artery bypass surgery (OA) [Schulte-Sasse & Tarnow], 492
- nitroprusside**
effect of, on pulmonary edema, oxygen exchange, and blood flow in hydrochloric acid aspiration (OA) [Gottlieb, Wood, Hansen & Long], 203
- phenylephrine**
and isoflurane and canine coronary artery rings (OA) [Blaise, Sill, Nugent, Van Dyke & Vanhoutte], 513
- prostaglandin F_{2A}**
and isoflurane and canine coronary artery rings (OA) [Blaise, Sill, Nugent, Van Dyke & Vanhoutte], 513
- serotonin**
and isoflurane and canine coronary artery rings (OA) [Blaise, Sill, Nugent, Van Dyke & Vanhoutte], 513
- specific bradycardic agents**
UL-FS 49
new therapeutic modality for anesthesiology (OA) [Riley, Gross, Kampine & Warltier], 707
- vancomycin**
histamine release by: mechanism for hypotension in man (CR) [Levy, Kettlekamp, Goertz, Hermens & Hirshman], 122
- vasoconstrictors**
and isoflurane and canine coronary artery rings (OA) [Blaise, Sill, Nugent, Van Dyke & Vanhoutte], 513
- verapamil**
cardiovascular effects of (OA) [Schulte-Sasse & Tarnow], 492
- Pharyngeal edema, See under Complications**
- Phase II block, See under Neuromuscular relaxants**
- Phenol, See under Preservatives**
- Phenothiazines, See under Ataractics**
- Phenylephrine, See under Pharmacology; Sympathetic nervous system, catecholamines**
- Phenytoin, See under Interactions (drug); Pharmacology, drug interactions**
- Pheochromocytoma, See under Surgery**
- Phosphates**
high-energy, *See under Heart*
- ³¹Phosphorus, See under Isotopes**
- Pitot tube, See under Measurement techniques**
- Placebo, See under Pain**
- Plasma cholinesterase, See under Enzymes**
- Plasma oncotic pressure, See under Blood; Blood pressure**
- Plasmapheresis, See under Blood**
- Pneumatic compression device, See under Equipment**
- Pollution, See under Complications**
- Position**
of head and neck for rapid sequence induction (CO) [Tran], 861
- Sellick's maneuver**
for rapid sequence induction (CO) [Tran], 861
- Postherpetic neuralgia, See under Complications**
- Postoperative analgesia, See under Analgesia**
- Postoperative pain, See under Pain**
- Potassium, See under Ions**
- Potency**
anesthetic
age factors
do premature infants require anesthesia for surgery? (EV) [Berry & Gregory], 291
clonidine
reduces halothane MAC in rats (CO) [Maze, Birch & Vickery], 868
ED₅₀
and enflurane sparing effect of sufentanil in dogs (OA) [Hall, Murphy & Hug], 518
in study morphine and fentanyl hypnotic interactions with thiopental (OA) [Kissin, Mason & Bradley], 331
enflurane
sparing effect of sufentanil in dogs (OA) [Hall, Murphy & Hug], 518
MAC
do premature infants require anesthesia for surgery? (EV) [Berry & Gregory], 291
and enflurane sparing effect of sufentanil in dogs (OA) [Hall, Murphy & Hug], 518
for halothane, in rats, clonidine reduces (CO) [Maze, Birch & Vickery], 868
sufentanil
enflurane sparing effect of, in dogs (OA) [Hall, Murphy & Hug], 518
- Precordial stethoscope, See under Equipment**
- Pregnancy**
teratogenicity
of nitrous oxide, isoflurane, and their combination, in Sprague-Dawley rats (OA) [Fujinaga, Baden, Yhap & Mazze], 960
- Prejunctional action sites, See under Neuromuscular relaxants**
- Premature infants, See under Pediatrics**
- Premedication**
antihistamine
for inhibition of stress-induced beta-endorphin secretion (CO) [Bach, Knigge & Warberg], 605
atropine
rapidly reduces lower esophageal sphincter pressure in infants and children (CR) [Opie, Chaye & Steward], 989

- clonidine**
in alpine anesthesia (EV) [Longnecker], 1
effect of, on perioperative hemodynamics and isoflurane requirements (OA) [Ghignone, Calvillo & Quintin], 3
- midazolam**
ventricular irritability induced by (CO) [Arcos], 612
to relieve anxiety, anxiety levels and prediction of (CR) [Lichtor, Johanson, Mhoon, Faure, Hassan & Roizen], 595
- Preoperative care**
and anxiety levels in prediction of anxiety (CR) [Lichtor, Johanson, Mhoon, Faure, Hassan & Roizen], 595
- Preservatives**
chlorobutanol
injury induced by, chronic epidural morphine and (CR) [DuPen, Ramsey & Chin], 987
- formaldehyde**
injury induced by, chronic epidural morphine and (CR) [DuPen, Ramsey & Chin], 987
- phenol**
injury induced by, chronic epidural morphine and (CR) [DuPen, Ramsey & Chin], 987
- Preterm infants, See under Age factors**
- Procaine, See under Anesthetics, local**
- Propofol, See under Anesthetics, intravenous**
- Propranolol, See under Antagonists, beta adrenergic receptors; Pharmacokinetics; Sympathetic nervous system**
- Prostaglandin F_{2A}, See under Pharmacology**
- Protamine, See under Blood, coagulation**
- Psychologic responses**
anxiety
preoperative, and prediction of anxiety levels (CR) [Lichtor, Johanson, Mhoon, Faure, Hassan & Roizen], 595
- Pulmonary artery monitoring, See under Monitoring**
- Pulmonary artery perforation, See under Complications**
- Pulmonary artery pressure, See under Blood pressure; Measurement techniques; Monitoring**
- Pulmonary blood flow, See under Lung(s)**
- Pulmonary capillary pressure, See under Lung(s), blood flow**
- Pulmonary compliance, See under Lung(s)**
- Pulmonary drug uptake, See under Lung(s)**
- Pulmonary edema, See under Complications; Lung(s)**
- Pulmonary hypertension, See under Complications**
- Pulmonary vascular response, See under Hypoxia**
- Pulmonary vasoconstriction, See under Hypoxia**
- Pulse oximeter, See under Equipment**
- Pulse oximetry, See under Measurement techniques; Monitoring**
- Pulsed Doppler, See under Monitoring**

Q

- QT interval, See under Heart; Monitoring**
- Quinidine, See under Interactions**

R

- Radial artery, See under Arteries**
- Radioimmunoassay, See under Measurement techniques**
- Radiotherapy, See under Surgery**
- Rat, See under Species**
- Receptors**
alpha adrenergic receptors
calcium entry blockers and (OA) [Massagee, McIntyre, Kates, Reves & Bai], 485
- beta adrenergic receptors**
calcium entry blockers and (OA) [Massagee, McIntyre, Kates, Reves & Bai], 485

- Recovery**
recovery room
information feedback and pulse oximetry and (OA) [Cooper, Cullen, Nemeskai, Hoaglin, Gevirtz, Csete & Venable], 686
unexpected focal neurologic deficit at (CR) [Oliver, Cucchiara, Warner & Muir], 823
- Reductive metabolism, See under Metabolism**
- Reflexes**
swallowing reflex
depression of, during analgesia produced by inhalation of 50% nitrous oxide in oxygen (CR) [Nishino, Takizawa, Yokokawa & Hiraga], 995
- Regional anesthesia, See under Anesthetic techniques**
- Regional ventricular function, See under Heart**
- Renal transplantation, See under Kidney**
- Reports of Scientific Meetings, See under Organizations**
- Research**
ASA Award
to B. Raymond Fink (SA), 456
- clinical**
human rights and (CO) [Harte], 143
human rights and (CO) [Tarnow], 144
- Respiration, See under Ventilation**
- Respiratory distress syndrome, See under Lung(s)**
- Resuscitation, See under Shock**
- Rhabdomyolysis, See under Complications**
- Right atrial pressure, See under Blood pressure**
- Right-to-left shunt, See under Heart**
- Rigidity, See under Complications; Muscle**

S

- Sacral intervertebral epidural block, See under Anesthetic techniques**
- Sarcolemma, See under Muscle**
- Sarcoplasmic reticulum, See under Muscle**
- Scintigraphy**
ventilation and perfusion lung, *See under Measurement techniques*
- Sedation**
midazolam
following cardiac surgery (CR) [Westphal, Cheng, White, Sladen, Rosenthal & Sung], 257
- Sellick's maneuver, See under Position**
- Serotonin, See under Lung(s); Pharmacology**
- Serotonergic antagonists, See under Antagonists**
- Sevoflurane, See under Anesthetics, volatile**
- Shnider, S. M. (ed.)**
Anesthesia for Obstetrics, 2nd Edition (BR), 615
- Shock**
hemorrhagic
in changes in plasma osmolality and oncotic pressure (OA) [Zornow, Todd & Moore], 936
- resuscitation**
in changes in plasma osmolality and oncotic pressure (OA) [Zornow, Todd & Moore], 936
- Shoulder, See under Anatomy**
- Shunting, See under Lung(s)**
- Shunts, See under Heart; Lung(s)**
- Skeletal muscle rigidity, See under Hyperthermia, malignant**
- Skeletal muscle, See under Muscle**
- Skin**
in regional anesthesia in child with epidermolysis bullosa (CR) [Kaplan & Strauch], 262
- Snyder, J. V., and Pinsky, M. R.**
Oxygen Transport in the Critically Ill (BR), 614

Soda lime, *See under* Carbon dioxide

Sodium bicarbonate, *See under* Acid-base equilibrium

Species

rat

cirrhotic, halothane metabolism in (OA) [Baden, Serra, Fujinaga & Mazze], 660

Specific bradycardic agents, *See under* Pharmacology; Heart

Spectral edge frequency, *See under* Monitoring

Spectroscopy, magnetic resonance, *See under* Measurement techniques

Spinal anesthesia, *See under* Anesthesia; Anesthetic techniques

Spinal cord

weakness

during sedation in cervical spondylosis (CR) [Miller, Crosby & Sundaram], 844

Stellate ganglion block, *See under* Anesthetic techniques

Stethoscope, *See under* Equipment

Stethoscopic transmitter, *See under* Equipment

Stimulator, *See under* Monitoring

Stroke, *See under* Brain

Stroke volume, *See under* Heart

Subaortic stenosis, idiopathic hypertrophic, *See under* Heart

Subarachnoid block, *See under* Anesthetic techniques

Subpopulations, *See under* Immune response

Succinylcholine, *See under* Interactions; Neuromuscular relaxants

Sufentanil, *See under* Analgesics, narcotic; Anesthetics, intravenous

Sulfur hexafluoride, *See under* Measurement techniques

Sulphur hexafluoride, *See under* Gases, nonanesthetic

Surgery

cardiac

cardiopulmonary bypass

calcium entry blockers and α -receptor responsiveness in patients undergoing (OA) [Massagee, McIntyre, Kates, Reves & Bai], 485

catheter perforation of pulmonary artery in (CR) [Johnston, Royster, Vinten-Johansen, Gravlee, Howard, Mills & Tucker], 110

clonidine, narcotic dose, and hemodynamics in (OA) [Flacke, Bloor, Flacke, Wong, Dazza, Stead & Laks], 11

coronary artery bypass, lethal thrombosis during (CR) [Litwack & Harrow], 134

coronary artery bypass grafting, natural killer cell activity during (OA) [Tønnesen, Brinkløv, Christensen, Olesen & Madsen], 526

invasive *versus* 2D-echocardiography hemodynamic indices during (OA) [Thys, Hillel, Goldman, Mindich & Kaplan], 630

is EEG a useful monitor during? (CR) [El-Fiki & Fish], 575

midazolam infusion for sedation following (CR) [Westphal, Cheng, White, Sladen, Rosenthal & Sung], 257

pharmacologic EEG suppression during (OA) [Woodcock, Murkin, Farrar, Tweed, Guiraudon & McKenzie], 218

carotid endarterectomy

hypocalcemia and prolonged QT interval following (CR) [Zane, Eisenkraft & Haimov], 998

isoflurane decreases frequency of cerebral ischemia during (OA) [Michenfelder, Sundt, Fode & Sharbrough], 336

circumcision

analgesia following—ring block of penis (CR) [Broadman, Hannallah, Belman, Elder, Ruttimann & Epstein], 399

pain following, topical analgesia for relief of (CR) [Tree-trakarn, Pirayavaraporn & Lertakyamane], 395

high-risk

epidural anesthesia and analgesia in (CO) [Clark], 1026

epidural anesthesia and analgesia in (CO) [Day], 1025

epidural anesthesia and analgesia in (CO) [Frumin], 1023

epidural anesthesia and analgesia in (CO) [Glass & Yeager], 1026

epidural anesthesia and analgesia in (CO) [Jenkins], 1024

epidural anesthesia and analgesia in (CO) [Kehlet], 1022

lithotripsy

extracorporeal shock wave

hyperthermia and hypothermia as complications of (CO) [Malhotra], 448

liver transplantation

orthotopic, air embolism associated with veno-venous bypass during (CR) [Khoury, Mann, Porot, Abdul-Rasool & Busuttill], 848

orthotopic, atypical serum cholinesterase eliminated by (CR) [Khoury, Brill, Walts & Busuttill], 273

methylmethacrylate

and hemodynamic changes during total knee replacement surgery with total condylar prosthesis (CR) [Tartiere, Berthelin, Jehan, Trahay, Samii & Quesnel], 838

neurologic

nitrous oxide or isoflurane during, increase in cerebral blood volume in (OA) [Archer, Labrecque, Tyler, Meyer & Trop], 642

venous embolism during craniectomy in supine infants (CR) [Harris, Yemen, Davidson, Strafford, Rowe, Sanders & Rockoff], 816

ophthalmology

increased incidence of masseter spasm in children with strabismus (CR) [Carroll], 559

trismus following (EV) [Rosenberg], 453

orthopedic

and hemodynamic changes during total knee replacement surgery with total condylar prosthesis (CR) [Tartiere, Berthelin, Jehan, Trahay, Samii & Quesnel], 838

pancreatectomy

anesthesia for infant with severe hyperinsulinism treated by (CR) [Yamashita & Tsuneto], 985

pediatric

venous embolism during craniectomy in supine infants (CR) [Harris, Yemen, Davidson, Strafford, Rowe, Sanders & Rockoff], 816

pheochromocytoma

effect of autotransfusion of catecholamine levels during (CO) [Rice, Violante & Kreul], 1017

radiotherapy

craniospinal, anesthesia for children undergoing (CR) [Glauber & Audenaert], 801

thoracic

effect of halothane and isoflurane on arterial oxygenation during one-lung ventilation for (OA) [Benumof, Augustine & Gibbons], 910

high-frequency jet ventilation during (CR) [Howland, Carlon, Goldiner, Rooney, Concepcion, Bains & McCormack], 1009

thoracotomy

pain relief following, continuous thoracic epidural analgesia for (CR) [Logas, El-Baz, El-Ganzouri, Cullen, Staren, Faber & Ivankovich], 787

Swallowing reflex, *See under* Reflexes

Sympathetic nervous system

alpha adrenergic agonist

clonidine

reduces halothane MAC in rats (CO) [Maze, Birch & Vickery], 868

alpha receptors

calcium entry blockers and (OA) [Massagee, McIntyre, Kates, Reves & Bai], 485

beta adrenergic blocking drugs

calcium entry blockers and (OA) [Massagee, McIntyre, Kates, Reves & Bai], 485

beta adrenergic receptors

isoproterenol

and hemodynamic effects of UL-FS 49 in isoflurane-anesthetized dogs (OA) [Riley, Gross, Kampine & Warltier], 707

beta-receptor

of lymphocyte membranes, effects of halothane on (LR) [Marty, Nivoche, Nimier, Rocchiccioli, Luscombe, Henzel, Loiseau & Desmonts], 974

catecholamines

effects of coronary artery bypass grafting and natural killer cell activity on (OA) [Tønnesen, Brinkløv, Christensen, Olesen & Madsen], 526

epinephrine

effects of droperidol on, in humans (OA) [Balagny, Gauzit, Marty, Couderc, Levron & Desmonts], 473

in study of effects of graded exercise on leg exchange of energy substrates in malignant hyperthermia susceptible subjects (OA) [Rutberg, Hakanson, Hall & Jorfeldt], 308

for test dose of epidural analgesia (CR) [Van Zundert, Vaes, Soetens, De Vel, Van Der Aa, Van Der Donck, Meeuwis & DeWolf], 436

levels, during pheochromocytoma, effect of autotransfusion of catecholamine on (CO) [Rice, Violante & Kreul], 1017

norepinephrine

and dose-response relationship of clonidine in tetracaine spinal anesthesia (OA) [Mensink, Kozody, Kehler & Wade], 717

effects of droperidol on, in humans (OA) [Balagny, Gauzit, Marty, Couderc, Levron & Desmonts], 473

in study of effects of graded exercise on leg exchange of energy substrates in malignant hyperthermia susceptible subjects (OA) [Rutberg, Hakanson, Hall & Jorfeldt], 308

in perioperative clonidine treatment in coronary bypass surgery (OA) [Flacke, Bloor, Flacke, Wong, Dazza, Stead & Laks], 11

phenylephrine

in study of calcium entry blockers and α -receptor responsiveness (OA) [Massaee, McIntyre, Kates, Reves & Bai], 485

clonidine

in alpine anesthesia (EV) [Longnecker], 1

effect of, on perioperative hemodynamics and isoflurane requirements (OA) [Ghignone, Calvillo & Quintin], 3

reduced narcotic requirement by, and hemodynamics in coronary bypass surgery (OA) [Flacke, Bloor, Flacke, Wong, Dazza, Stead & Laks], 11

guanethidine

Bier block, apnea and syncope following (CO) [Woo & McQueen], 281

ligand

human beta-adrenergic receptor of, effects of halothane on (LR) [Marty, Nivoche, Nimier, Rocchiccioli, Luscombe, Henzel, Loiseau & Desmonts], 974

propranolol

distribution in dog, halothane and (OA) [Gordon, Wood, Koshakji, Wilkinson, Dupont & Wood], 225

sympatholytic agents

clonidine

dose-response relationship of, in tetracaine spinal anesthesia (OA) [Mensink, Kozody, Kehler & Wade], 717

distribution in dog, halothane and (OA) [Gordon, Wood, Koshakji, Wilkinson, Dupont & Wood], 225

disulfiram

-like reaction in carmoform after celiac plexus alcohol block (CR) [Noda, Umeda, Mori, Fukunaga & Mizoi], 809

labetalol

intravenous, for treatment of postoperative hypertension (CR) [Leslie, Kalayjian, Sirgo, Plachetka & Watkins], 413

sympathomimetic agents

ephedrine

for prevention of maternal hypotension during epidural anesthesia (CR) [Brizgys, Dailey, Shnider, Kotenko & Levinson], 782

Sympatholytic agents, *See under Sympathetic nervous system*

Sympathomimetic agents, *See under Sympathetic nervous system*

Systolic arterial pressure, *See under Circulation*

Systolic blood pressure, *See under Blood pressure*

T

Taylor, K.M.

Cardiopulmonary Bypass (BR), 450

Temperature

heating

reduces recovery time (cost) in outpatients (CR) [Conahan, Williams, Apfelbaum & Lecky], 128

hypothermia

reduces recovery time (cost) in outpatients (CR) [Conahan, Williams, Apfelbaum & Lecky], 128

monitoring, *See under Monitoring*

regulation

hypothalamus

and core temperature changes during N₂O fentanyl and halothane/O₂ anesthesia (CR) [Sessler, Rubinstein & Eger], 137

setpoint

and core temperature changes during N₂O fentanyl and halothane/O₂ anesthesia (CR) [Sessler, Rubinstein & Eger], 137

setpoint, *See under Temperature, regulation*

Teratogenicity, *See under Pregnancy; Toxicity, fetal*

Tetracaine, *See under Anesthetics, local*

Tetraethylammonium derivatives, *See under Anesthetics, local*

Thiopental, *See under Anesthetics, intravenous*

Thoracic anesthesia, *See under Anesthesia*

Thoracic surgery, *See under Surgery*

Thrombosis, *See under Complications; Veins*

Tidal volume, *See under Ventilation*

Tolerance

enflurane sparing effect of sufentanil in dogs (OA) [Hall, Murphy & Hug], 518

to anesthetics, *See under Anesthetics*

Topical anesthesia, *See under Anesthetic techniques*

Torticollis

acquired, *See under Complications*

Tourniquets, *See under Equipment*

Toxicity

acute hepatotoxicity

and halothane metabolism in rats (OA) [Baden, Serra, Fujinaga & Mazze], 660

cirrhosis

and halothane metabolism in rats (OA) [Baden, Serra, Fujinaga & Mazze], 660

fetal

teratogenicity

of nitrous oxide, isoflurane, and their combination, in Sprague-Dawley rats (OA) [Fujinaga, Baden, Yhap & Mazze], 960

isoflurane

in Sprague-Dawley rats (OA) [Fujinaga, Baden, Yhap & Mazze], 960

liver

and halothane metabolism in rats (OA) [Baden, Serra, Fujinaga & Mazze], 660

mutagenicity

in N-nitrosoamines derived from reaction of nitroprusside and secondary amines (CO) [Klopman, Frierson & Dauchot], 279

neurotoxicity

in ultralong-lasting nerve block (OA) [Lipfert, Seitz & Arndt], 896

- nitroprusside**
in N-nitrosoamines derived from reaction of nitroprusside and secondary amines (CO) [Klopman, Frierson & Dauchot], 279
- nitrous oxide**
in Sprague-Dawley rats (OA) [Fujinaga, Baden, Yhap & Mazze], 960
- reproductive**
of nitrous oxide, isoflurane, and their combination, in Sprague-Dawley rats (OA) [Fujinaga, Baden, Yhap & Mazze], 960
- triethyldodecyl ammonium**
in ultralong-lasting nerve block (OA) [Lipfert, Seitz & Arndt], 896
- Trace concentrations, See under Anesthetics**
- Trachea, See under Airway**
- Tracheal intubation, See under Anesthetic techniques; Intubation**
- Tracheal-esophageal fistula, See under Airway**
- Tracheobronchial tree, See under Anatomy**
- Transdiaphragmatic pressure, See under Measurement techniques**
- Transesophageal echocardiography, See under Monitoring**
- Transfusion**
autotransfusion
effect of, on catecholamine levels during pheochromocytoma (CO) [Rice, Violante & Kreul], 1017
- dextran**
severe reaction to, despite hapten inhibition (CR) [Bernstein, Rosenberg, Pada & Jaffe], 567
- Transient hypoxia, See under Blood**
- Translaryngeal ventilation, See under Ventilation**
- Transport of ions, See under Ions**
- Transtacheal high-frequency jet ventilation, See under Ventilation**
- Triethyldodecyl ammonium, See under Toxicity**
- Trisomy-21 syndrome, See under Complications**
- Tubes, See under Equipment**
- Twins**
conjoined
perioperative management of (MI) [Diaz & Furman], 965
- Two-dimensional echocardiography, See under Measurement techniques**

U

- UL-FS 49, See under Pharmacology, specific bradycardic agent**
- Upper airway obstruction, See under Airway; Complications**
- Uptake of anesthetics, See under Anesthetics**
cerebral, See under Brain
- Uptake of ions, See under Ions**
- Use-dependent block, See under Nerve(s)**
- Uterine blood flow, See under Hemodynamics**

V

- Vancomycin, See under Pharmacology**
- Vascular conductance, See under Lung(s)**
- Vasoconstrictors, See under Pharmacology**
- Vecuronium, See under Neuromuscular relaxants; Pharmacokinetics**
- Veins**
thrombosis
prevention
with intermittent pneumatic compression of legs (CR) [Unger & Feiner], 266
- Ventilation**
artificial
systolic pressure variation as indicator of hypovolemia in (OA) [Perel, Pizov & Cotev], 498
- carbon dioxide response**
following epidural sufentanil in children (OA) [Benlabeled, Ecoffey, Levron, Flaisler & Gross], 948

controlled

- systolic pressure variation as indicator of hypovolemia in (OA) [Perel, Pizov & Cotev], 498

failure

- acute, treatment by extracorporeal carbon dioxide elimination with artificial lung (CR) [Bindslev, Eklund, Norlander, Swedenborg, Olsson, Nilsson, Larm, Gouda, Malmberg & Scholander], 117

high-frequency

- during thoracic surgical procedures (CR) [Howland, Carlon, Goldiner, Rooney, Concepcion, Bains & McCormack], 1009

mechanical

- during thoracic surgical procedures (CR) [Howland, Carlon, Goldiner, Rooney, Concepcion, Bains & McCormack], 1009

one-lung

- halothane and isoflurane only slightly impair arterial oxygenation during, in thoracotomy (OA) [Benumof, Augustine & Gibbons], 910
- high pressure pop-off safety device when using Bain circuit for CPAP oxygenation during (CO) [Hensley, Martin & Skeehan], 863
- sequential, for bilateral bullectomy (CR) [Benumof], 268
- ventilation/perfusion scans to predict oxygenation during (CR) [Hurford, Kolker & Strauss], 841

pattern

- in bilateral bullectomy (CR) [Benumof], 268

PEEP

- antidiuresis (CO) [Payen], 609
- antidiuresis (CO) [Urzuu], 608

respiration

- and reduction of tonic ribcage muscle activity by anesthesia with thiopental (OA) [Drummond], 695

tidal volume

- modified Pitot tube for, in children (LR) [Wolf & Volgyesi], 775

translaryngeal

- cannulation: continuing misconceptions (CO) [Yealy & Stewart], 445
- Gildar's system of (CO) [Reich & Schwartz], 446
- Gildar's system of (CO) [Sosis], 446
- system of, problems with (CO) [Goldman & Braude], 447

transtracheal high-frequency jet

- percutaneous, as aid to fiberoptic intubation (CR) [Boucek, Gunnerson & Tullock], 247

Ventilation and perfusion lung scintigraphy, See under Measurement techniques**Ventricular function, See under Heart****Verapamil, See under Pharmacokinetics; Pharmacology, calcium blocking drugs****Viral infection, See under Infection****Visual evoked potentials, See under Monitoring****Volatile anesthetics, See under Anesthetics****Vomiting****nausea**

- and effects of eliminating nitrous oxide in outpatient anesthesia (CR) [Mehnick & Johnson], 982

W

Washout, See under Lung(s)**Water****anesthetic degradation**

- and stability of sevoflurane (LR) [Strum, Johnson & Eger], 779

Wu, W.-H. (ed.)

- Pain Management: Assessment and Treatment of Acute and Chronic Syndromes* (BR), 614

AUTHOR INDEX TO VOLUME 67

A

- Abdul-Rasool, Imad H., Sears, Daniel H., Katz, Ronald L.: The Effect of a Second Dose of Succinylcholine on Cardiac Rate and Rhythm Following Induction of Anesthesia with Etomidate or Midazolam, 795
- Abdul-Rasool, Imad H., *see* Khoury, George F.
- Abernethy, Darrell R., *see* Chelly, Jacques E.
- Abramowitz, J.: Is Isoflurane Dangerous for the Patient with Coronary Artery Disease? Another View. III, 286
- Abramowitz, Michael D., *see* Hannallah, Raafat S.
- Adderley, R. J., *see* Blackstock, D.
- Adenwala, Jayshree, *see* Camp, Cathlyne E.
- Ahlif, Susan B., *see* Roerig, David L.
- Akel, Samir, *see* Baraka, Anis
- Albin, M. S., *see* Robinson, D. A.
- Albrecht, R. F., *see* Becker, G. L.
- Albrecht, Ronald F., *see* Baughman, Verna L.
- Albright, George A., *see* Cohen, Sheila E.
- Allison, Ronald C., *see* Cope, Doris K.
- Anderson, Betty, *see* Johnston, Richard
- Apfelbaum, J. L., *see* Conahan, T. J., III
- Archer, David P., Labrecque, Pascal, Tyler, Jane L., Meyer, Ernst, Trop, Davy: Cerebral Blood Volume is Increased in Dogs during Administration of Nitrous Oxide or Isoflurane, 642
- Arcos, George J.: Midazolam-induced Ventricular Irritability, 612
- Arndt, Joachim, *see* Lipfert, Peter
- Arnold, Donald E., Rose, Robert J., Stoddard, Priscilla: Intraoperative Cardiac Dysrhythmias in a Patient With Bulimic Anorexia Nervosa, 1003
- Artru, A. A., Hornbein, T. F.: Prolonged Hypocapnia Does Not Alter the Rate of CSF Production in Dogs during Halothane Anesthesia or Sedation with Nitrous Oxide, 66
- Arvieux, Charles C., *see* Videcoq, Michel
- Asada, Akira, *see* Kubota, Hiroshi
- Ashton-Miller, J. A., *see* Van Der Spek, A. F. L.
- Atlee, John L., III: Halothane: Cause or Cure for Arrhythmias?, 617
- Audenaert, Steve M., *see* Glauber, Dennis T.
- Augustine, Scott D., *see* Benumof, Jonathan L.

B

- Babcock, Michael F., Bedford, Robert F., Berry, Frederic A.: Ligneous Tracheobronchitis: An Unusual Cause of Airway Obstruction, 819
- Bach, Flemming W., Knigge, Ulrich, Warberg, Jørgen: The Inhibition of Stress-induced Beta-endorphin Secretion by Histamine Receptor Antagonists, 605
- Baden, Jeffrey M., Serra, Mauricio, Fujinaga, Masahiko, Mazze, Richard L.: Halothane Metabolism in Cirrhotic Rats, 660
- Baden, Jeffrey M., *see* Fujinaga, Masahiko
- Badgwell, J. Michael, *see* Kao, Yin James
- Bai, Stephen, *see* Massagee, James T.
- Bains, Manjit S., *see* Howland, William S.
- Bainton, Cedric R.: A New Laryngoscope Blade to Overcome Pharyngeal Obstruction, 767
- Baker, Thomas, Stanec, Anna: Drug Actions at Mammalian Motor Nerve Endings: The Suppression of Neostigmine-induced Fasciculations by Vecuronium and Isoflurane, 942
- Balagny, Dominique, Gauzit, Rémy, Marty, Jean, Couderc, Emmanuel, Levron, Jean Claude, Desmonts, Jean Marie: Effects of Droperidol on Sympathetic Activity and Baroreflex Control of Heart Rate in Humans, 473
- Balser, Jeffrey S., *see* Blair, John R.
- Baraka, Anis, Akel, Samir, Muallem, Musa, Haroun, Sania, Baroody, Maurice, Sibai, Abdel Nour, Louis, Faek: Bronchial Intubation in Children: Does the Tube Bevel Determine the Side of Intubation?, 869
- Baraka, Anis, Yazigi, Alex: Neuromuscular Interaction of Magnesium with Succinylcholine-vecuronium Sequence in the Eclamptic Parturient, 806
- Baroody, Maurice, *see* Baraka, Anis
- Barre, J., *see* Desparmet, J.
- Baughman, Verna L., Hoffman, William E., Albrecht, Ronald F., Miletich, David J.: Cerebral Vascular and Metabolic Effects of Fentanyl and Midazolam in Young and Aged Rats, 314
- Bauman, J.: Prevention of Postherpetic Neuralgia, 441
- Bazara, M.: Preoperative Testing for Human Immunodeficiency Virus Infection, 278
- Becker, G. L., Miletich, D. J., Albrecht, R. F.: Halogenated Anesthetics Increase Oxygen Consumption in Isolated Hepatocytes from Phenobarbital-treated Rats, 185
- Becker, L. C.: Reply to: Is Isoflurane Dangerous for the Patient with Coronary Artery Disease? Another View. III, 287
- Bedford, R. F., *see* Stirt, J. A.
- Bedford, Robert F., *see* Babcock, Michael F.; *also see* Desiderio, Dawn P.; *also see* Stirt, Joseph A.
- Belman, A. Barry, *see* Broadman, Lynn M.; *also see* Hannallah, Raafat S.
- Benlabeled, Malik, Ecoffey, Claude, Levron, Jean-Claude, Flaisler, Benedicte, Gross, Jeffrey B.: Analgesia and Ventilatory Response to CO₂ Following Epidural Sufentanil in Children, 948
- Benson, Don M., *see* Williams, E. Lynne
- Benumof, J. L.: Sequential One-lung Ventilation for Bilateral Bullectomy, 268
- Benumof, Jonathan, Partridge, Brian L., Salvatierra, Cairo, Keating, John: Margin of Safety in Positioning Modern Double-lumen Endotracheal Tubes, 729
- Benumof, Jonathan L., Augustine, Scott D., Gibbons, James A.: Halothane and Isoflurane Only Slightly Impair Arterial Oxygenation during One-lung Ventilation in Patients Undergoing Thoracotomy, 910
- Benumof, Jonathan L., *see* Mitchell, Mark M.
- Bernstein, Ralph L., Rosenberg, Andrew D., Pada, Esther Yoro, Jaffe, Fredrick F.: A Severe Reaction to Dextran Despite Hapten Inhibition, 567
- Berry, Frederic A., Gregory, George A.: Do Premature Infants Require Anesthesia for Surgery?, 291
- Berry, Frederic A., *see* Babcock, Michael F.
- Berthelin, Catherine, *see* Tartiere, Jack
- Bevan, D. R., *see* Laycock, J. R. D.
- Bindslev, L., Eklund, J., Norlander, O., Swedenborg, J., Olsson, P., Nilsson, E., Larm, O., Gouda, I., Malmberg, A., Scholander, E.: Treatment of Acute Respiratory Failure by Extracorporeal Carbon Dioxide Elimination Performed with a Surface Heparinized Artificial Lung, 117
- Birch, Barry, *see* Maze, Mervyn
- Bishop, Michael Joshua, *see* Stout, David Michael
- Bjorksten, A. R., *see* Crankshaw, D. P.
- Blackstock, D., Adderley, R. J., Steward, D. J.: Epiglottitis in Young Infants, 97
- Blair, John R., Pruett, Jack K., Crumrine, Robert S., Balser, Jeffrey S.: Prolongation of QT Interval in Association with the Administration of Large Doses of Opiates, 442
- Blaise, G., Sill, J. C., Nugent, M., Van Dyke, R. A., Vanhoutte, P. M.: Isoflurane Causes Endothelium-dependent Inhibition of Contractile Responses of Canine Coronary Arteries, 513
- Blanck, Thomas J. J., *see* Cassella, Eugénie Shalhoub; *also see* Murray, Paul A.
- Block, B. S., *see* Faure, E. A. M.
- Blomqvist, H., *see* Carlsson, Å., J.
- Bloor, B. C., *see* Flacke, J. W.
- Bokesch, Paula M., Castaneda, Aldo R., Ziemer, Gerhard, Wilson, John M.: The Influence of a Right-to-left Cardiac Shunt on Lidocaine Pharmacokinetics, 739
- Borland, L. M., Reilly, J. S., Smith, S. D.: Anesthetic Management of Tracheal Esophageal Fistula with Distal Tracheal Stenosis, 132
- Bosnjak, Z. J., *see* Hoka, S.
- Bosnjak, Zeljko J., *see* Turner, Lawrence A.
- Boucek, C. D., Gunnerson, H. B., Tullock, W. C.: Percutaneous Transtracheal High-frequency Jet Ventilation as an Aid to Fiberoptic Intubation, 247
- Bowdle, T. Andrew: Myoclonus Following Sufentanil Without EEG Seizure Activity, 593
- Boyd, M. D., *see* Crankshaw, D. P.

- Bradley, E. L., Jr., *see* Kissin, I.
 Bradley, Edwin L., Jr., *see* Hursh, Diana; *also see* Kissin, Igor
 Braude, Walter, *see* Goldman, Julian M.
 Bready, Smith: Decision Making in Anesthesiology, 615
 Brett, C. M., Teitel, D. F., Heymann, M. A., Rudolph, A. M.: The Cardiovascular Effects of Isoflurane in Lambs, 60
 Brill, J., *see* Khoury, G. F.
 Brinklov, Morten M., *see* Tønnesen, Else
 Brizgys, Ray V., Dailey, Patricia A., Shnider, Sol M., Kotelko, Dennis M., Levinson, Gershon: The Incidence and Neonatal Effects of Maternal Hypotension During Epidural Anesthesia for Cesarean Section, 782
 Broadman, Lynn M., Hannallah, Raafat S., Belman, A. Barry, Elder, Paul T., Ruttimann, Urs, Epstein, Burton S.: Post-circumcision Analgesia—A Prospective Evaluation of Subcutaneous Ring Block of the Penis, 399
 Broadman, Lynn M., *see* Hannallah, Raafat S.
 Brustowicz, Robert M., Moncorge, Claude, Koka, Babu V.: Metabolic Responses to Tourniquet Release in Children, 792
 Bunegin, L., *see* Robinson, D. A.
 Busch, E. H., Stedman, P. M.: Epidural Morphine for Postoperative Pain on Medical-surgical Wards—A Clinical Review, 101
 Busoni, Paolo, Sarti, Armando: Sacral Inter-vertebral Epidural Block, 993
 Busuttill, R. W., *see* Khoury, G. F.
 Busuttill, Ronald W., *see* Khoury, George F.
 Byers, David J., Merin, Robert G.: Malignant Hyperthermia in a Renal Transplant Recipient, 979

C

- Cahalan, Marianne T., *see* Cahalan, Michael K.
 Cahalan, Michael K., Prakash, Omar, Rulf, Evert N. R., Cahalan, Marianne T., Mayala, Anselmo P. G., Lurz, Frank C., Rosseel, Peter, Lachitjaran, Edmund, Siphanto, King, Gussenhoven, Elma J., Roelandt, Jos R. T. C.: Addition of Nitrous Oxide to Fentanyl Anesthesia Does Not Induce Myocardial Ischemia in Patients with Ischemic Heart Disease, 925
 Cairns, Andrew M., *see* Fink, B. Raymond
 Caldwell, Craig, Rains, Garry, McKitterick, Kevin: An Unusual Reaction to Preoperative Metoclopramide, 854
 Calvillo, O., *see* Ghignone, M.
 Camp, Cathlyne E., Tessem, Joy, Adenwala, Jayshree, Joyce, Thomas H.: Vecuronium and Prolonged Neuromuscular Blockade in Postpartum Patients, 1006
 Canfell, P. Claver, *see* Cannon, John E.
 Cannon, John E., Fahey, Mark R., Castagnoli, Kay P., Furuta, Takashi, Canfell, P. Claver, Sharma, Manohar, Miller, Ronald D.: Continuous Infusion of Vecuronium: The Effect of Anesthetic Agents, 503
 Carli, Pierre, *see* Payen, Didier
 Carlson, Graziano C., *see* Howland, William S.
 Carlson, D. S., *see* Van Der Spek, A. F. L.
 Carlsson, Å. J., Hedenstierna, G., Blomqvist, H., Strandberg, Å.: Separate Lung Blood Flow in Anesthetized Dogs: A Comparative Study Between Electromagnetometry and SF₆ and CO₂ Elimination, 240
 Carmichael, F. J., *see* Chung, Frances
 Caroff, S. N., Rosenberg, H., Fletcher, J. E., Heiman-Patterson, T. D., Mann, S. C.: Malignant Hyperthermia Susceptibility in Neuroleptic Malignant Syndrome, 20
 Carrigan, Thomas W., Straughen, William J.: A Report of Hepatic Necrosis and Death Following Isoflurane Anesthesia, 581
 Carroll, Joan, *see* Rubiano, Remigio
 Carroll, Joan B.: Increased Incidence of Masseter Spasm in Children with Strabismus Anesthetized with Halothane and Succinylcholine, 559
 Cason, Brian A., Verrier, Edward D., London, Martin J., Mangano, Dennis T., Hickey, Robert F.: Effects of Isoflurane and Halothane on Coronary Vascular Resistance and Collateral Myocardial Blood Flow: Their Capacity to Induce Coronary Steal, 665
 Cassella, Eugene Shalhoub, Suite, Nicholas D. A., Fisher, Yvonne I., Blanck, Thomas J. J.: The Effect of Volatile Anesthetics on the pH Dependence of Calcium Uptake by Cardiac Sarcoplasmic Reticulum, 386
 Castagnoli, K. P., *see* Rupp, S. M.
 Castagnoli, Kay P., *see* Cannon, John E.
 Castaneda, Aldo R., *see* Bokesch, Paula M.
 Chadwick, H. S., *see* Moore, D. C.
 Chance, B., *see* Smith, D. S.
 Chang, Juei-Ling, *see* Rubiano, Remigio
 Chauvin, Marcel, *see* Pansard, Jean-Louis
 Chaye, Helena, *see* Opie, John C.
 Cheek, D. B. C., Hughes, S. C., Dailey, P. A., Field, D. R., Pytko, S., Rosen, M. A., Parer, J. T., Shnider, S. M.: Effect of Halothane on Regional Cerebral Blood Flow and Cerebral Metabolic Oxygen Consumption in the Fetal Lamb *In Utero*, 361
 Chelly, Jacques E., Hysing, Einar S., Hill, Douglas C., Abernethy, Darrell R., Dlewati, Abdallah, Doursout, Marie-Francoise, Merin, Robert G.: Cardiovascular Effects of and Interaction Between Calcium Blocking Drugs and Anesthetics in Chronically Instrumented Dogs. V. Role of Pharmacokinetics and the Autonomic Nervous System in the Interactions Between Verapamil and Inhalational Anesthetics, 320
 Chen, Linda, Miller, Francis L., Malmkvist, Gunnar, Clergue, Francois X., Marshall, Carol, Marshall, Bryan E.: High-dose Almitrine Bismesylate Inhibits Hypoxic Pulmonary Vasoconstriction in Closed-chest Dogs, 534
 Cheney, F. W., *see* Owen, R. L.
 Cheng, E. Y., *see* Westphal, L. M.
 Chew, W., *see* Litt, L.; *also see* Mills, P.
 Chi, Oak Za, McCoy, Carrie L., Field, Christine: Effects of Fentanyl Anesthesia on Visual Evoked Potentials in Humans, 827
 Chien, S., *see* Young, W. L.
 Chin, Steven, *see* Du Pen, Stuart L.
 Christensen, Niels J., *see* Tønnesen, Else
 Chung, A., *see* Chung, Frances
 Chung, Frances, Meier, R., Lautenschlager, E., Carmichael, F. J., Chung, A.: General or Spinal Anesthesia: Which is Better in the Elderly?, 422
 Clark, John L.: Epidural Anesthesia and Analgesia in High-risk Surgical Patients. V, 1025
 Clark, Richard B.: It's Tuohy, Not Touhy, 612
 Clark, Richard B., *see* Minnich, Marie E.
 Clergue, Francois X., *see* Chen, Linda
 Cline, Elizabeth J., *see* Weinger, Matthew B.
 Cohen, Michael B., Mark, Jonathan B., Morris, Richard W., Frank, Evan: Introducer Sheath Malfunction Producing Insidious Air Embolism, 573
 Cohen, Sheila E., Tan, Shirley, Albright, George A., Halpern, Jerry: Epidural Fentanyl/bupivacaine Mixtures for Obstetric Analgesia, 403
 Collier, Jerry A., Manchikanti, Laxmaiah, Markwell, Stephen J.: Evaluation and Comparison of the Distributions of Gastric pH and Hydrogen Ion Concentration, 391
 Conahan, T. J., III, Williams, G. D., Apfelbaum, J. L., Lecky, J. H.: Airway Heating Reduces Recovery Time (Cost) in Outpatients, 128
 Conception, Isis, *see* Howland, William S.
 Cooper, Jeffrey B., Cullen, David J., Nemeskal, Roberta, Hoaglin, David C., Gevirtz, Clifford C., Csete, Marie, Venable, Claudia: Effects of Information Feedback and Pulse Oximetry on the Incidence of Anesthesia Complications, 686
 Cope, Doris K., Allison, Ronald C., Taylor, Aubrey E.: A Simple Method to Determine Pulmonary Capillary Pressure, 866
 Costarino, Andrew T., Davis, Deborah A., Keon, Thomas P.: Falsely Normal Saturation Reading with the Pulse Oximeter, 830
 Cote, Charles J.: Depth of Halothane Anesthesia Potentiates Citrate-induced Ionized Hypocalcemia and Adverse Cardiovascular Events in Dogs, 676
 Cotev, Shamay, *see* Perel, Azriel
 Couderc, Emmanuel, *see* Balagny, Dominique
 Cousins, Michael J.: Comparative Pharmacokinetics of Spinal Opioids in Humans: A Step Toward Determination of Relative Safety, 875
 Cousins, Michael J., *see* Plummer, John L.
 Coveler, L. A.: More on Management of the Difficult Airway, 154
 Crankshaw, D. P., Boyd, M. D., Bjorksten, A. R.: Plasma Drug Efflux—A New Approach to Optimization of Drug Infusion for Constant Blood Concentration of Thiopental and Methohexital, 32
 Crone, R. K., *see* Hershenson, M. B.

Crosby, Gregory, *see* Miller, Richard A.
Crumrine, Robert S., *see* Blair, John R.
Cséte, Marie, *see* Cooper, Jeffrey B.
Cucchiara, Roy F., *see* Oliver, Susan B.
Cullen, Bruce Frederick, *see* Stout, David Michael
Cullen, David J., *see* Cooper, Jeffrey B.
Cullen, Marc, *see* Logas, William G.

D

Dailey, P. A., *see* Cheek, D. B. C.; *also see* Rosen, M. A.
Dailey, Patricia A., *see* Brizgys, Ray V.
Dallas, Terri L., Lin, Renny L., Wu, Wen-Hsien, Wolskee, Patricia: Epidural Morphine and Methylprednisolone for Low-back Pain, 408
Dandekar, P. V., *see* Rosen, M. A.
Dauchot, P. J., *see* Klopman, G.
Davidson, Alex, *see* Harris, Mark M.
Davies, Gerald, *see* Wells, Douglas G.
Davis, Deborah A., *see* Costantino, Andrew T.
Davis, Gerald, *see* Wells, Douglas
Davis, Neville J., *see* Hillman, David R.
Dawson, Christopher A., *see* Roerig, David L.
Day, Franklin J.: Epidural Anesthesia and Analgesia in High-risk Surgical Patients. IV, 1025
Dazza, S., *see* Flacke, J. W.
DeKornfeld, Thomas J.: Anesthesiology: A Concise Textbook, 871
Delleur, M.-M., *see* Murat, I.
Derr, Janice A., *see* Kofke, W. Andrew
Derrington, M. C., *see* Fell, D.
Desiderio, Dawn P., Meister, Michael, Bedford, Robert F.: Intraoperative Re-expansion Pulmonary Edema, 821
Desmonts, Jean Marie, *see* Balagny, Dominique
Desmonts, Jean Marie, *see* Marty, Jean
deSoto, H.: Direct Laryngoscopy as an Aid to Relieve Airway Obstruction in a Patient with a Mediastinal Mass, 116
Desparmet, J., Meistelman, C., Barre, J., Saint-Maurice, C.: Continuous Epidural Infusion of Bupivacaine for Postoperative Pain Relief in Children, 108
DeTraglia, M. C., *see* Redon, D.
De Vel, M., *see* Van Zundert, A.
Devitt, J. Hugh, *see* Greschner, Michael
De Wolf, A., *see* Van Zundert, A.
Diaz, J., *see* Ornstein, E.
Diaz, James H., Furman, Eric B.: Perioperative Management of Conjoined Twins, 965
Dicks, Alan, *see* Williams, E. Lynne
Dlewati, Abdallah, *see* Chelly, Jacques E.
Donati, F., *see* Laycock, J. R. D.
Donch, Terese E., *see* Mitchell, Mark M.
Dong, M.-L.: Arnold-Chiari Malformation Type I Appearing after Tonsillectomy, 120
Doursout, Marie-Francoise, *see* Chelly, Jacques E.
Downs, David, *see* Hanowell, Leland
Drummond, Gordon B.: Reduction of Tonic

Ribcage Muscle Activity by Anesthesia with Thiopental, 695
Drummond, J. C., *see* Frankville, D. D.
Drummond, John C., *see* Scheller, Mark S.
Dubousset, Anne-Marie, *see* Payen, Didier
Du Pen, Stuart L., Ramsey, Donald, Chin, Steven: Chronic Epidural Morphine and Preservative-induced Injury, 987
Dupont, W. D., *see* Gordon, L.
Durkan, William, Fleming, Neal: Potential Eye Damage from Reusable Masks, 444
Durrani, Z., O'Hara, J.: Histaminoid Reaction from Vecuronium Priming: A Case Report, 130
Duvaldestin, Philippe, *see* Pansard, Jean-Louis
Dwersteg, Jochen Friedrich, *see* Stout, David Michael

E

Ecoffey, Claude, *see* Benlabed, Malik
Ecoffey, Claude, *see* Payen, Didier
Eger, E. I., II, *see* Rosen, M. A.; *also see* Sessler, D. I.
Eger, Edmond I., II, *see* Strum, David P.
Eide, T. R., Humayun-Scott, B., Poppers, P. J.: Reply to: More on Dyes and Pulse Oximeters, 149
Eisele, John H., Jr., *see* Hanowell, Leland
Eisenkraft, James B., *see* Zane, Edward A.
Eklund, J., *see* Bindslev, L.
El-Baz, Nabi, *see* Logas, William G.
Elder, Paul T., *see* Broadman, Lynn M.
El-Fiki, Mohamed, Fish, Kevin J.: Is the EEG a Useful Monitor during Cardiac Surgery? A Case Report, 575
El-Ganzouri, Abdel, *see* Logas, William G.
Ellermeyer, W. P.: A Modification of Traditional Sterile Technique for Regional Anesthesia, 150
Ellis, John, *see* Lawson, Dan
Endo, Eric, *see* Sladen, Robert N.
Epstein, Burton S., *see* Broadman, Lynn M.; *also see* Hannallah, Raafat S.
Epstein, Robert M.: ASA Award: B. Raymond Fink, 456
Esteve, C., *see* Murat, I.

F

Faber, Penfield L., *see* Logas, William G.
Fahey, Mark R., *see* Cannon, John E.
Fang, W. B., *see* Van Der Spek, A. F. L.
Farrar, J. K., *see* Woodcock, T. E.
Fasano, Michael, *see* Kofke, W. Andrew
Faure, E. A. M., Lim, H. S., Block, B. S., Tan, P. L., Roizen, M. F.: Sodium Bicarbonate Buffers Gastric Acid during Surgery in Obstetric and Gynecologic Patients, 274
Faure, Eveline A. M., *see* Lichtor, J. Lance
Feaster, Sandra J., *see* Swedlow, David B.
Feiner, J. R., *see* Unger, R. J.
Fell, D., Derrington, M. C., Wandless, J. G.: Caudal and Ilioinguinal/Iliohypogastric Nerve Blocks in Children, 1020
Field, Cristine, *see* Chi, Oak Za

Field, D. R., *see* Cheek, D. B. C.
Fink, B. Raymond, Cairns, Andrew M.: Differential Use-dependent (Frequency-dependent) Effects in Single Mammalian Axons: Data and Clinical Considerations, 477
Fish, Kevin J., *see* El-Fiki, Mohamed
Fisher, D. M., *see* Rupp, S. M.
Fisher, Yvonne I., *see* Cassella, Eugenie Shalhoub
Flacke, J. W., Bloor, B. C., Flacke, W. E., Wong, D., Dazza, S., Stead, S. W., Laks, H.: Reduced Narcotic Requirement by Clonidine with Improved Hemodynamic and Adrenergic Stability in Patients Undergoing Coronary Bypass Surgery, 11
Flacke, W. E., *see* Flacke, J. W.
Flaisler, Benedicte, *see* Benlabed, Malik
Fleming, Neal, *see* Durkan, William
Fletcher, J. E., *see* Caroff, S. N.; *also see* Heiman-Patterson, T.
Fode, Nicolee, *see* Michenfelder, John D.
Foëx, Pierre, *see* Videcoq, Michel
Frank, Evan, *see* Cohen, Michael B.
Franks, John J., *see* Kambam, J. Reddy
Frankville, D. D., Drummond, J. C.: Hyperkalemia after Succinylcholine Administration in a Patient with Closed Head Injury without Paresis, 264
Freedman, J. M.: HTLV-III Is Now HIV, 145
Frierson, M. R., *see* Klopman, G.
Friesen, Robert H., Honda, Albert T., Thieme, Rita E.: Perianesthetic Intracranial Hemorrhage in Preterm Neonates, 814
Frost, Elizabeth A. M., *see* Lu, Gabriel
Frumin, M. Jack: Epidural Anesthesia and Analgesia in High-risk Surgical Patients. II, 1023
Fujinaga, Masahiko, Baden, Jeffrey M., Yhap, Edgar O., Mazze, Richard I.: Reproductive and Teratogenic Effects of Nitrous Oxide, Isoflurane, and Their Combination in Sprague-Dawley Rats, 960
Fujinaga, Masahiko, *see* Baden, Jeffrey M.
Fukunaga, Tatsushige, *see* Noda, Junko
Furman, Eric B., *see* Diaz, James H.
Furuta, Takashi, *see* Cannon, John E.
Furuya, Hitoshi, *see* Yahagi, Naoki

G

Garguilo, Richard, *see* Kronenfeld, Mark A.
Gaudiche, O., *see* Murat, I.
Gauneau, Pascal, *see* Pansard, Jean-Louis
Gauzit, Rémy, *see* Balagny, Dominique
Gelman, Simon: Anesthesia and Organ Transplantation, 871
Gelman, Simon, *see* Hursh, Diana
Gerr, Pat, *see* Urquhart, Murray L.
Gevirtz, Clifford C., *see* Cooper, Jeffrey B.
Ghignone, M., Calvillo, O., Quintin, L.: Anesthesia and Hypertension: The Effect of Clonidine on Perioperative Hemodynamics and Isoflurane Requirements, 3
Gibbons, James A., *see* Benumof, Jonathan L.
Gibbs, C. P., *see* Levinson, G.

- Gibbs, Neville, Handal, J., Nentwig, M. K.: Pulse Oximetry during Shoulder Arthroscopy, 150
- Glass, D. David, see Yeager, Mark P.
- Glass, R. H., see Rosen, M. A.
- Glauber, Dennis T., Audenaert, Steve M.: Anesthesia for Children Undergoing Craniospinal Radiotherapy, 801
- Goertz, P., see Levy, J. H.
- Goldberg, Michael E., see Seltzer, Joseph L.
- Goldiner, see Howland
- Goldiner, Paul L., see Howland, William S.; also see Lu, Gabriel
- Goldman, Julian M.: A Simple, Easy, and Inexpensive Method for Monitoring ETCO₂ through Nasal Cannulae, 606
- Goldman, Julian M., Braude, Walter: A Problem with a Transtracheal Oxygenation System, 447
- Goldman, Martin E., see Thys, Daniel M.
- González-Méndez, R., see Litt, L.
- Gordon, L., Wood, A. J. J., Koshakji, R. P., Wilkinson, G. R., Dupont, W. D., Wood, M.: Acute Effects of Halothane Anesthesia on Arterial and Venous Concentrations of Propranolol in the Dog, 225
- Goresky, Gerald V., Koren, Gideon, Sabourin, M. A., Sale, John P., Strunin, Leo: The Pharmacokinetics of Alfentanil in Children, 654
- Gottlieb, S. S., Wood, L. D. H., Hansen, D. E., Long, G. R.: The Effect of Nitroprusside on Pulmonary Edema, Oxygen Exchange, and Blood Flow in Hydrochloric Acid Aspiration, 203
- Gouda, I., see Bindslev, L.
- Grace, Michael, see Johnston, Richard
- Graham, Garry G., see Tsui, David
- Grant, Gilbert, see Kronenfeld, Mark A.
- Gravenstein, N., see Siegel, M. N.
- Gravlee, G. P., see Johnston, W. E.
- Gray, W. E., Jr.: Reply to: Foreign Body from a Tube of Anesthetic Ointment, 155
- Gregory, George A., see Berry, Frederic A.
- Greschner, Michael, Devitt, J. Hugh: Unexpected Migration of an Esophageal Foreign Body, 565
- Gross, Garrett J., see Riley, David C.
- Gross, Jeffrey B., see Benlabeled, Malik
- Grosslight, K. R., see Stirt, J. A.
- Grover, V. K., Mahajan, R. P., Sharma, S. L.: Reply, 604
- Guiraudon, G. M., see Woodcock, T. E.
- Gunnerson, H. B., see Boucek, C. D.
- Gussenhoven, Elma J., see Cahalan, Michael K.
- Gutstein, Howard B., Koblin, Donald D.: Craniotomy for Tumor in a Patient with a Bronchopleural Fistula: Anesthetic Considerations, 804
- H**
- Haddox, J. David, Kettler, Robert E.: Stellate Ganglion Block: Normal Saline as Placebo, 832
- Haimov, Moshe, see Zane, Edward A.
- Hakanson, Erik, see Rutberg, Hans
- Hall, George M., see Rutberg, Hans
- Hall, Pauline de la M., see Plummer, John L.
- Hall, Richard I., Murphy, Michael R., Hug, Carl C., Jr.: The Enflurane Sparing Effect of Sufentanil in Dogs, 518
- Halpern, Jerry, see Cohen, Sheila E.
- Hamilton, W. K.: Is Isoflurane Dangerous for the Patient with Coronary Artery Disease? Another View, 11, 286
- Hamilton, W. K., see Litt, L.
- Handal, J., see Gibbs, Neville
- Hannallah, Raafat S., Broadman, Lynn M., Belman, A. Barry, Abramowitz, Michael D., Epstein, Burton S.: Reply, 1021
- Hannallah, Raafat S., see Broadman, Lynn M.; also see Welborn, Leila G.
- Hanowell, Leland, Eisele, John H., Jr., Downs, David: Ambient Light Affects Pulse Oximeters, 864
- Hansen, D. E., see Gottlieb, S. S.
- Hantler, C. B., Wilton, N., Learned, D. M., Hill, A. E. G., Knight, P. R.: Impaired Myocardial Conduction in Patients Receiving Diltiazem Therapy during Enflurane Anesthesia, 94
- Haroun, Sania, see Baraka, Anis
- Harris, Mark M., Yemen, Terry A., Davidson, Alex, Strafford, Maureen A., Rowe, Richard W., Sanders, Stephen P., Rockoff, Mark A.: Venous Embolism during Craniectomy in Supine Infants, 816
- Harrison, Thomas, see Sladen, Robert N.
- Harte, F. A.: Human Rights and Clinical Research, 143
- Hartvig, Per, see Sjöström, Staffan
- Hassan, Shakeela Z., see Lichter, J. Lance
- Haworth, Charles, see Stirt, Joseph A.
- Hedenstierna, G., see Carlsson, Å., J.
- Heiman-Patterson, T., Fletcher, J. E., Rosenberg, H., Tahmouh, A. J.: No Relationship Between Fiber Type and Halothane Contracture Test Results in Malignant Hyperthermia, 82
- Heiman-Patterson, T. D., see Caroff, S. N.
- Hensley, Frederick A., Jr., Martin, Fred, Skeehan, Thomas M.: High Pressure Pop-off Safety Device when Using the Bain Circuit for CPAP Oxygenation during One-lung Ventilation, 863
- Henzel, Danielle, see Marty, Jean
- Herbst, T. J.: Prevention of Hypoxic Gas Mixtures, 281
- Hermens, J., see Levy, J. H.
- Hershenson, M. B., O'Rourke, P. P., Schena, J. A., Crone, R. K.: Effect of Halothane on Critical Levels of Oxygen Transport in the Anesthetized Newborn Lamb, 174
- Heykants, J. J. P., see Woestenborghs, R. J. H.
- Heymann, M. A., see Brett, C. M.
- Hickey, P. R., see McAuliffe, J. J.
- Hickey, Robert F., see Cason, Brian A.
- Hicks, Jocelyn M., see Welborn, Leila G.
- Hill, A. E. G., see Hantler, C. B.
- Hill, Douglas C., see Chelly, Jacques E.
- Hillel, Zaharia, see Thys, Daniel M.
- Hillman, David R., Rung, George W., Thompson, Walter R., Davis, Neville J.: The Effect of Bupivacaine Scalp Infiltration on the Hemodynamic Response to Craniotomy under General Anesthesia, 1001
- Hinkle, Allen J.: Percutaneous Inguinal Block for the Outpatient Management of Post-herniorrhaphy Pain in Children, 411
- Hiraga, Kazuaki, see Nishino, Takashi
- Hirshman, C. A., see Levy, J. H.
- Hoaglin, David C., see Cooper, Jeffrey B.
- Hoffman, William E., see Baughman, Verna L.
- Hoka, S., Bosnjak, Z. J., Kampine, J. P.: Halothane Inhibits Calcium Accumulation Following Myocardial Ischemia and Calcium Paradox in Guinea Pig Hearts, 197
- Honda, Albert T., see Friesen, Robert H.
- Hornbein, T. F., see Artru, A. A.
- Horrow, J. C., see Litwack, R. S.
- Howard, G., see Johnston, W. E.
- Howland, Rooney, Goldiner: Manual of Anesthesia in Cancer Care, 451
- Howland, William S., Carlon, Graziano C., Goldiner, Paul L., Rooney, Sharon-Marie, Concepcion, Isis, Bains, Manjit S., McCormack, Patricia M.: High-frequency Jet Ventilation During Thoracic Surgical Procedures, 1009
- Hug, Carl C., Jr., see Hall, Richard I.
- Hughes, S. C., see Cheek, D. B. C.
- Humayun-Scott, B., see Eide, T. R.
- Hurford, William E., Kolker, Anne C., Strauss, H. William: The Use of Ventilation/perfusion Lung Scans to Predict Oxygenation during One-lung Anesthesia, 841
- Hursh, Diana, Gelman, Simon, Bradley, Edwin L., Jr.: Hepatic Oxygen Supply during Halothane or Isoflurane Anesthesia in Guinea Pigs, 701
- Hysing, Einar S., see Chelly, Jacques E.
- I**
- Ishida, Hiroyuki, see Kubota, Hiroshi
- Ivankovich, Anthony D., see Logas, William G.; also see Tuman, Kenneth J.
- J**
- Jackson, S., Welch, G. W.: Foreign Body from a Tube of Anesthetic Ointment, 154
- Jacobus, William E., see Murray, Paul A.
- Jaffe, Fredrick F., see Bernstein, Ralph L.
- James, T. L., see Litt, L.; also see Mills, P.
- Jehan, Claude, see Tartiere, Jack
- Jenkins, J. G.: Epidural Anesthesia and Analgesia in High-risk Surgical Patients, III, 1024
- Jenner, Mark A., see Plummer, John L.
- Johanson, Chris E., see Lichter, J. Lance
- Johnson, Brynte H., see Strum, David P.
- Johnson, Linda S., see Melnick, Brian M.

- Johnston, Richard, Noseworthy, Thomas, Anderson, Betty, Konopad, Elsie, Grace, Michael: Propofol Versus Thiopental for Outpatient Anesthesia, 431
- Johnston, W. E., Royster, R. L., Vinten-Johansen, J., Gravelle, G. P., Howard, G., Mills, S. A., Tucker, W. Y.: Influence of Balloon Inflation and Deflation on Location of Pulmonary Artery Catheter Tip, 110
- Jones, Brian R., *see* Mitchell, Mark M.
- Jones, Lee A., *see* Videcoq, Michel
- Jonmarker, C., Westrin, P., Larsson, S., Werner, O.: Thiopental Requirements for Induction of Anesthesia in Children, 104
- Jonmarker, C., *see* Larsson, A.
- Jonson, B., *see* Larsson, A.
- Jorfeldt, Lennart, *see* Rutberg, Hans
- Josovitz, K., *see* Young, W. L.
- Joyce, Thomas H., *see* Camp, Cathlyne E.

K

- Kalayjian, Robert W., *see* Leslie, John B.
- Kamaya, Hiroshi, Krishna, P. R.: Ketamine Addiction, 861
- Kambam, J. Reddy, Franks, John J., Naukam, R., Sastry, B. V. R.: Effect of Quinidine on Plasma Cholinesterase Activity and Succinylcholine Neuromuscular Blockade, 858
- Kampine, J. P., *see* Hoka, S.
- Kampine, John P., *see* Riley, David C.; *also see* Roerig, David L.; *also see* Turner, Lawrence A.
- Kao, Yin James, Badgwell, J. Michael: Reusing the Nellcor Pulse Probe: Clarification, 866
- Kaplan, Joel A., *see* Thys, Daniel M.
- Kaplan, R., Strauch, B.: Regional Anesthesia in a Child with Epidermolysis Bullosa, 262
- Kates, Robert A., *see* Massagge, James T.
- Katz, Jordan, Steward, David J.: Anesthesia and Uncommon Pediatric Disease, 616
- Katz, Ronald L., *see* Abdul-Rasool, Imad H.
- Keamy, Mitchell F., III, *see* Kofke, W. Andrew
- Keating, John, *see* Benumof, Jonathan
- Kehler, Chris H., *see* Mensink, Fred J.
- Kehlet, Henrik: Epidural Anesthesia and Analgesia in High-risk Surgical Patients. I, 1022
- Keon, Thomas P., *see* Costarino, Andrew T.
- Kettlekamp, N., *see* Levy, J. H.
- Kettler, Robert E., *see* Haddox, J. David
- Khouri, G. F., Brill, J., Walts, L., Busuttill, R. W.: Atypical Serum Cholinesterase Eliminated by Orthotopic Liver Transplantation, 273
- Khouri, George F., Mann, Martin E., Porot, Marc J., Abdul-Rasool, Imad H., Busuttill, Ronald W.: Air Embolism Associated with Veno-venous Bypass during Orthotopic Liver Transplant, 848
- Kinoshita, Hisao, *see* Tashiro, Chikara
- Kissin, I., Mason, J. O., III, Bradley, E. L., Jr.: Pentobarbital and Thiopental Anesthetic Interactions with Midazolam, 26

- Kissin, Igor, Mason, John O., III, Bradley, Edwin L., Jr.: Morphine and Fentanyl Hypnotic Interactions with Thiopental, 331
- Klopman, G., Frierson, M. R., Dauchot, P. J.: Carcinogenicity of N-nitrosoamines Derived from Reaction of Sodium Nitroprusside with Some Therapeutically Important Secondary Amines, 279
- Knigge, Ulrich, *see* Bach, Flemming W.
- Knight, P. R., *see* Hantler, C. B.
- Knight, Paul R., *see* Tait, Alan R.
- Koblin, Donald D., *see* Gutstein, Howard B.
- Koebert, Robert F., Munster, Richard: One-way Leak in Mass Spectrometer Sampling System, 606
- Kofke, W. Andrew, Fasano, Michael, Keamy, Mitchell F., III, Derr, Janice A.: Continuous Hypopharyngeal pH during Anesthesia Via Mask, 434
- Koka, Babu V., *see* Brustowicz, Robert M.
- Kolker, Anne C., *see* Hurford, William E.
- Komai, Hirochika, *see* Rusy, Ben F.
- Komatsu, Hisao, Ogli, Kenji: Opisthotonus during Exposure to Isoflurane, Enflurane, and Halothane in Mice, 771
- Konopad, Elsie, *see* Johnston, Richard
- Koob, George F., *see* Weinger, Matthew B.
- Korbon, Greg, *see* Lawson, Dan
- Koren, Gideon, *see* Goresky, Gerald V.
- Koshakji, R. P., *see* Gordon, L.
- Kotelko, Dennis M., *see* Brizgys, Ray V.
- Kotly, Karel J., *see* Roerig, David L.
- Kozody, Raymond, *see* Mensink, Fred J.
- Kreul, John F., *see* Rice, Mark J.
- Krishna, P. R., *see* Kamaya, Hiroshi
- Kronenfeld, Mark A., Garguilo, Richard, Weinberg, Paul, Grant, Gilbert, Thomas, Stephen J., Turndorf, Herman: Left Atrial Injection of Protamine Does Not Reliably Prevent Pulmonary Hypertension, 578
- Kubota, Hiroshi, Kubota, Yukio, Toyoda, Yoshiro, Ishida, Hiroyuki, Asada, Akira, Matsuura, Hideo: Selective Blind Endobronchial Intubation in Children and Adults, 587
- Kubota, Yukio, *see* Kubota, Hiroshi
- Kunkel, S. E., Warner, M. A.: Reply to: HTLV-III Is Now HIV, 146
- Kunkel, S. E., Warner, M. A.: Reply to: Preoperative Testing for Human Immunodeficiency Virus Infection, 278

L

- Labrecque, Pascal, *see* Archer, David P.
- Lachitjaran, Edmund, *see* Cahalan, Michael K.
- Laks, H., *see* Flacke, J. W.
- Larijani, Ghassem E., *see* Seltzer, Joseph L.
- Larm, O., *see* Bindlev, L.
- Larson, Christopher E., *see* Rubiano, Remigio
- Larsson, A., Linnarsson, D., Jonmarker, C., Jonson, B., Larsson, H., Werner, O.: Measurement of Lung Volume by Sulfur Hexafluoride Washout during Spontaneous and

- Controlled Ventilation: Further Development of a Method, 543
- Larsson, H., *see* Larsson, A.
- Larsson, S., *see* Jonmarker, C.
- Lautenschlager, E., *see* Chung, Frances
- Lawson, Dan, Norley, Ian, Korbon, Greg, Loeb, Robert, Ellis, John: Blood Flow Limits and Pulse Oximeter Signal Detection, 599
- Laycock, J. R. D., Smith, C. E., Donati, F., Bevan, D. R.: Sensitivity of the Adductor Pollicis and Diaphragm Muscles to Atracurium in a Hemiplegic Patient, 851
- Learned, D. M., *see* Hantler, C. B.
- Lebrault, Claude, *see* Pansard, Jean-Louis
- Lecky, J. H., *see* Conahan, T. J., III
- LeDez, Kenneth M., Lerman, Jerrold: The Minimum Alveolar Concentration (MAC) of Isoflurane in Preterm Neonates, 301
- Lee, V. C.: Rapid Calculation of Isoflurane Unit Doses for Closed-Circuit Anesthesia, 283
- Lepántalo, Mauri J. A., *see* Rosenberg, Per H.
- Lerman, Jerrold, *see* LeDez, Kenneth M.
- Lertakyamane, Jariya, *see* Tree-trakarn, Thara
- Leslie, John B., Kalayjian, Robert W., Sirgo, Mark A., Plachetka, John R., Watkins, W. David: Intravenous Labetalol for Treatment of Postoperative Hypertension, 413
- Levinson, G., Shnider, S. M., Gibbs, C. P.: Reply to: No Evidence that Anesthesiologists Enhance Care of the Parturient, 152
- Levinson, Gershon, *see* Brizgys, Ray V.; *also see* Shnider, Sol M.
- Levron, Jean Claude, *see* Balagny, Dominique
- Levron, Jean-Claude, *see* Benlabed, Malik
- Levy, J. H.: A Laboratory Test to Detect Antibodies to Protamine, 281
- Levy, J. H., Kettlekamp, N., Goertz, P., Hermens, J., Hirshman, C. A.: Histamine Release by Vancomycin: A Mechanism for Hypotension in Man, 122
- Levy, Jerrold M.: Anaphylactic Reactions in Anesthesia and Intensive Care, 450
- Lichter, J. Lance, Johanson, Chris E., Mhoon, Debbie, Faure, Eveline A. M., Hassan, Sha-keela Z., Roizen, Michael F.: Preoperative Anxiety: Does Anxiety Level the Afternoon Before Surgery Predict Anxiety Level Just Before Surgery?, 595
- Lim, H. S., *see* Faure, E. A. M.
- Lin, Renny L., *see* Dallas, Terri L.
- Lindfors, Olof, *see* Rosenberg, Per H.
- Linnarsson, D., *see* Larsson, A.
- Lipfert, Peter, Seitz, Rüdiger J., Arndt, Joachim: Ultralong-lasting Nerve Block: Triethyldecyl Ammonium Bromide is Probably a Neurotoxin Rather than a Local Anesthetic, 896
- Litt, L., González-Méndez, R., James, T. L., Sessler, D. I., Mills, P., Chew, W., Moseley, M., Pereira, B., Severinghaus, J. W., Hamilton, W. K.: An *In Vivo* Study of Halothane Uptake and Elimination in the Rat Brain

- with Fluorine Nuclear Magnetic Resonance Spectroscopy, 161
 Litt, L., *see* Mills, P.; *also see* Rosen, M. A.
 Litwack, R. S., Horrow, J. C.: Lethal Thrombosis during Coronary Artery Bypass Graft Surgery, 134
 Loeb, Robert, *see* Lawson, Dan
 Logas, William G., El-Baz, Nabil, El-Ganzouri, Abdel, Cullen, Marc, Staren, Edgar, Faber, Penfield L., Ivankovich, Anthony D.: Continuous Thoracic Epidural Analgesia for Postoperative Pain Relief Following Thoracotomy: A Randomized Prospective Study, 787
 Loiseau, Alain, *see* Marty, Jean
 London, Martin J., *see* Cason, Brian A.
 Long, G. R., *see* Gottlieb, S. S.
 Longnecker, D. E.: Alpine Anesthesia: Can Pretreatment with Clonidine Decrease the Peaks and Valleys?, 1
 Louis, Faek, *see* Baraka, Anis
 Lu, Gabriel, Frost, Elizabeth A. M., Goldiner, Paul L.: Another Aspect of Celiac Plexus Block, 1017
 Lunn, John N.: Epidemiology in Anesthesia: The Techniques of Epidemiology Applied to Anesthetic Practice, 450
 Lurz, Frank C., *see* Cahalan, Michael K.
 Luscombe, Francis, *see* Marty, Jean

M

- Madsen, Tommy, *see* Tønnesen, Else
 Maggio, William, *see* Stirt, Joseph A.
 Mahajan, R. P., *see* Grover, V. K.
 Mahoney, L. T., *see* Murray, D.
 Malhotra, Vinod: Hyperthermia and Hypothermia as Complications of Extracorporeal Shock Wave Lithotripsy, 448
 Malmberg, A., *see* Bindeslev, L.
 Malmkvist, Gunnar, *see* Chen, Linda
 Manchikanti, Laxmaiah, *see* Collier, Jerry A.
 Mangano, Dennis T., *see* Cason, Brian A.
 Mann, Martin E., *see* Khoury, George F.
 Mann, S. C., *see* Caroff, S. N.
 Mark, Jonathan B., *see* Cohen, Michael B.
 Markwell, Stephen J., *see* Collier, Jerry A.
 Marr, Alexander T., *see* Seltzer, Joseph L.
 Marshall, Bryan E., *see* Chen, Linda
 Marshall, Carol, *see* Chen, Linda
 Martin, Fred, *see* Hensley, Frederick A., Jr.
 Martin, M., *see* Rosen, M. A.
 Marty, Jean, Nivoche, Yves, Nimier, Martin, Rocchiccioli, Catherine, Luscombe, Francis, Henzel, Danielle, Loiseau, Alain, Desmonts, Jean Marie: The Effects of Halothane on the Human Beta-adrenergic Receptor of Lymphocyte Membranes, 974
 Marty, Jean, *see* Balagny, Dominique
 Marx, Gerti F., *see* Seidman, Steven F.
 Mason, J. O., III, *see* Kissin, I.
 Mason, John O., III, *see* Kissin, Igor
 Massagee, James T., McIntyre, R. W., Kates, Robert A., Reves, J. G., Bai, Stephen: Effects of Preoperative Calcium Entry Blocker Therapy on α -Adrenergic Responsiveness in Patients Undergoing Coronary Revascularization, 485
 Matherne, P., *see* Murray, D.
 Matjasko, Jane: Economic Impact of Low-Flow Anesthesia, 863
 Matsuura, Hideo, *see* Kubota, Hiroshi
 Matteo, R. S., *see* Ornstein, E.; *also see* Rampil, I. J.
 Mayala, Anselmo P. G., *see* Cahalan, Michael K.
 Maze, Mervyn, Birch, Barry, Vickery, Ross G.: Clonidine Reduces Halothane MAC in Rats, 868
 Mazze, Richard I., *see* Baden, Jeffrey M.; *also see* Fujinaga, Masahiko
 McAuliffe, J. J., Hickey, P. R.: The Effect of Halothane on the Steady-state Levels of High-energy Phosphates in the Neonatal Heart, 231
 McCarthy, Robert J., *see* Tuman, Kenneth J.
 McCormack, Patricia M., *see* Howland, William S.
 McCoy, Carrie L., *see* Chi, Oak Za
 McCune, W. J., *see* Meyer, R. M.
 McGill, Willis A., *see* Welborn, Leila G.
 McIntyre, R. W., *see* Massagee, James T.
 McKenzie, F. N., *see* Woodcock, T. E.
 McKiterick, Kevin, *see* Caldwell, Craig
 McQueen, J., *see* Woo, R.
 Meathe, Edward A., *see* Mitchell, Mark M.
 Meeuwis, H., *see* Zundert, A. Van
 Meier, R., *see* Chung, Frances
 Meistelman, C., *see* Desparmet, J.
 Meister, Michael, *see* Desiderio, Dawn P.
 Melnick, Brian M., Johnson, Linda S.: Effects of Eliminating Nitrous Oxide in Outpatient Anesthesia, 982
 Mensink, Fred J., Kozody, Raymond, Kehler, Chris H., Wade, John G.: Dose-response Relationship of Clonidine in Tetracaine Spinal Anesthesia, 717
 Meredith, J. W., *see* Pauca, A. L.
 Merin, R. G.: Is Isoflurane Dangerous for the Patient with Coronary Artery Disease? Another View, 1, 284
 Merin, Robert G., *see* Byers, David J.; *also see* Chelly, Jacques E.
 Meyer, Ernst, *see* Archer, David P.
 Meyer, R. M., McCune, W. J.: Assessing the Level of Spinal Anesthesia Using a Neuromuscular Stimulator, 125
 Mhoon, Debbie, *see* Lichtor, J. Lance
 Michenfelder, John D., Sundt, Thoralf M., Fode, Nicolee, Sharbrough, Frank W.: Isoflurane When Compared to Enflurane and Halothane Decreases the Frequency of Cerebral Ischemia During Carotid Endarterectomy, 336
 Milde, J. H., *see* Milde, L. N.
 Milde, L. N., Milde, J. H.: The Detrimental Effect of Lidocaine on Cerebral Metabolism Measured in Dogs Anesthetized with Isoflurane, 180
 Miletich, D. J., *see* Becker, G. L.
 Miletich, David J., *see* Baughman, Verna L.
 Miller, Blaine R.: Problems Associated with Endotracheal Tubes with Monitoring Lumens in Pediatric Patients, 1018
 Miller, Francis L., *see* Chen, Linda
 Miller, R. D., *see* Rupp, S. M.
 Miller, Richard A., Crosby, Gregory, Sundaram, Pennathur: Exacerbated Spinal Neurologic Deficit during Sedation of a Patient with Cervical Spondylosis, 844
 Miller, Ronald D., *see* Cannon, John E.
 Mills, P., Sessler, D. I., Moseley, M., Chew, W., Pereira, B., James, T. L., Litt, L.: An *In Vivo* ^{19}F Nuclear Magnetic Resonance Study of Isoflurane Elimination from the Rabbit Brain, 169
 Mills, P., *see* Litt, L.
 Mills, S. A., *see* Johnston, W. E.
 Mindich, Bruce P., *see* Thys, Daniel M.
 Miner, M. E., *see* Williams, J. P.
 Minnich, Marie E., Quirk, J. Gerald, Clark, Richard B.: Epidural Anesthesia for Vaginal Delivery in a Patient with Idiopathic Hypertrophic Subaortic Stenosis, 590
 Minton, Michael D., *see* Stirt, Joseph A.
 Mitchell, Mark M., Meathe, Edward A., Jones, Brian R., Donch, Terese E., Ricks, William G., Benumof, Jonathan L., Saidman, Lawrence J.: Accurate, Automated, Continuously Displayed Pulmonary Artery Pressure Measurement, 294
 Miyamoto, Y., *see* Tsuneto, S.
 Miyasaka, Katsuyuki, Ohata, Jun: Burn, Erosion, and "Sun"tan With the Use of Pulse Oximetry in Infants, 1008
 Mizoi, Yasuhiko, *see* Noda, Junko
 Moncorge, Claude, *see* Brustowicz, Robert M.
 Montay, G., *see* Murat, I.
 Moore, D. C., Chadwick, H. S., Ready, L. B.: Epinephrine Prolongs Lidocaine Spinal: Pain in the Operative Site the Most Accurate Method of Determining Local Anesthetic Duration, 416
 Moore, Suzanne S., *see* Zornow, Mark H.
 Morales, O., *see* Young, W. L.
 Morell, Robert C., *see* Urquhart, Murray L.
 Mori, Kenjiro, *see* Noda, Junko
 Morris, Richard W., *see* Cohen, Michael B.
 Moseley, M., *see* Litt, L.; *also see* Mills, P.
 Muallem, Musa, *see* Baraka, Anis
 Muir, Jesse J., *see* Oliver, Susan B.
 Munster, Richard, *see* Koeber, Robert F.
 Murat, I., Esteve, C., Montay, G., Delleur, M.-M., Gaudiche, O., Saint-Maurice, C.: Pharmacokinetics and Cardiovascular Effects of Bupivacaine during Epidural Anesthesia in Children with Duchenne Muscular Dystrophy, 249
 Murkin, J. M., *see* Woodcock, T. E.
 Murphy, Michael R., *see* Hall, Richard I.
 Murray, D., Vandewalker, G., Matherne, P., Mahoney, L. T.: Pulsed Doppler and Two-dimensional Echocardiography: Comparison of Halothane and Isoflurane on Cardiac

Function in Infants and Small Children, 211

Murray, Paul A., Blanck, Thomas J. J., Rogers, Mark C., Jacobus, William E.: Effects of Halothane on Myocardial High-energy Phosphate Metabolism and Intracellular pH Utilizing ^{31}P NMR Spectroscopy, 649

N

Naifeh, Karen H., *see* Severinghaus, John W.
Naukam, R., *see* Kambam, J. Reddy
Nemeskal, Roberta, *see* Cooper, Jeffrey B.
Nentwig, M. K., *see* Gibbs, Neville
Nilsson, E., *see* Bindslev, L.
Nimier, Martin, *see* Marty, Jean
Nishino, Takashi, Takizawa, Kazunori, Yokokawa, Nobuko, Hiraga, Kazuaki: Depression of the Swallowing Reflex during Sedation and/or Relative Analgesia Produced by Inhalation of 50% Nitrous Oxide in Oxygen, 995
Nivoche, Yves, *see* Marty, Jean
Noda, Junko, Umeda, Shinichiro, Mori, Kenjiro, Fukunaga, Tatsushige, Mizoi, Yasuhiko: Disulfiram-like Reaction Associated with Carmofur after Celiac Plexus Alcohol Block, 809
Norlander, O., *see* Bindslev, L.
Norley, Ian, *see* Lawson, Dan
Noseworthy, Thomas, *see* Johnston, Richard
Nugent, M., *see* Blaise, G.
Nuwer, Marc R.: Evoked Potential Monitoring in the Operating Room, 873

O

Ogli, Kenji, *see* Komatsu, Hisao
O'Hara, J., *see* Durrani, Z.
Ohata, Jun, *see* Miyasaka, Katsuyuki
Olesen, Anders S., *see* Tønnesen, Else
Oliver, Susan B., Cucchiara, Roy F., Warner, Mark A., Muir, Jesse J.: Unexpected Focal Neurologic Deficit on Emergence From Anesthesia: A Report of Three Cases, 823
Olsson, P., *see* Bindslev, L.
Opie, John C., Chaye, Helena, Steward, David J.: Intravenous Atropine Rapidly Reduces Lower Esophageal Sphincter Pressure in Infants and Children, 989
Ornstein, E., Matteo, R. S., Schwartz, A. E., Silverberg, P. A., Young, W. L., Diaz, J.: The Effect of Phenytoin on the Magnitude and Duration of Neuromuscular Block Following Atracurium or Vecuronium, 191
O'Rourke, P. P., *see* Hershenson, M. B.
Overfield, David M., *see* Tuman, Kenneth J.
Owen, R. L., Cheney, F. W.: Endobronchial Intubation: A Preventable Complication, 255

P

Pada, Esther Yoro, *see* Bernstein, Ralph L.
Pansard, Jean-Louis, Chauvin, Marcel, Le-

brault, Claude, Gauneau, Pascal, Duvaldestin, Philippe: Effect of an Intubating Dose of Succinylcholine and Atracurium on the Diaphragm and the Adductor Pollicis Muscle in Humans, 326

Parer, J. T., *see* Cheek, D. B. C.
Partridge, Brian L., *see* Benumof, Jonathan
Pauca, A. L., Meredith, J. W.: Possibility of A-V Shunting Upon Cardiopulmonary Bypass Discontinuation, 91
Payen, Didier: Reply, 609
Payen, Didier, Ecoffey, Claude, Carli, Pierre, Dubousset, Anne-Marie: Pulsed Doppler Ascending Aortic, Carotid, Brachial, and Femoral Artery Blood Flows during Caudal Anesthesia in Infants, 681
Pereira, B., *see* Litt, L.; *also see* Mills, P.
Perel, Azriel, Pizov, Reuven, Cotev, Shamay: Systolic Blood Pressure Variation is a Sensitive Indicator of Hypovolemia in Ventilated Dogs Subjected to Graded Hemorrhage, 498
Persson, M. Peter, *see* Sjöström, Staffan
Peterson, Craig A.: A Note of Caution when Using Different Cuffs with the DinamapTM, 607
Petty, Clayton: The Anesthesia Machine, 872
Phillips, Gareth H.: Epidural Sufentanil/bupivacaine Combinations for Analgesia during Labor: Effect of Varying Sufentanil Doses, 835
Pinsky, Michael R., *see* Snyder, James V.
Pirayavaraporn, Sangsom, *see* Tree-trakarn, Thara
Pizov, Reuven, *see* Perel, Azriel
Plachetka, John R., *see* Leslie, John B.
Plummer, John L., Hall, Pauline de la M., Jenner, Mark A., Cousins, Michael J.: Hepatic Effects of Repeated Halothane Anesthetics in the Hypoxic Rat Model, 355
Poppers, P. J., *see* Eide, T. R.
Porot, Marc J., *see* Khoury, George F.
Prakash, Omar, *see* Cahalan, Michael K.
Pruett, Jack K., *see* Blair, John R.
Pytko, S., *see* Cheek, D. B. C.

Q

Quesnel, Jacques, *see* Tartiere, Jack
Quintin, L., *see* Ghignone, M.
Quirk, J. Gerald, *see* Minnich, Marie E.

R

Rains, Garry, *see* Caldwell, Craig
Rampil, I. J., Matteo, R. S.: Changes in EEG Spectral Edge Frequency Correlate with the Hemodynamic Response to Laryngoscopy and Intubation, 139
Ramsay, James G., *see* Videcoq, Michel
Ramsey, Donald, *see* Du Pen, Stuart L.
Ramsey, Frederic M., *see* Urquhart, Murray L.
Rannels, D. Eugene, *see* Watkins, Clyde A.
Ready, L. B., *see* Moore, D. C.

Redon, D., DeTraglia, M. C.: Inexpensive Stethoscopic Transmitter, 283
Reich, David L., Schwartz, Nathan: Reply, 446
Reilly, D., *see* Williams, J. P.
Reilly, J. S., *see* Borland, L. M.
Reves, J. G., *see* Massague, James T.
Rice, Mark J., Violante, Edward V., Kreul, John F.: The Effect of Autotransfusion on Catecholamine Levels During Pheochromocytoma, 1017
Ricks, William G., *see* Mitchell, Mark M.
Riley, David C., Gross, Garrett J., Kampine, John P., Warltier, David C.: Specific Bradycardic Agents: A New Therapeutic Modality for Anesthesiology: Hemodynamic Effects of UL-FS 49 and Propranolol in Conscious and Isoflurane-anesthetized Dogs, 707
Robinson, D. A., Bunegin, L., Albin, M. S.: Reply to: Central Venous Pressure Monitoring during Cesarean Section, 147
Rocchiccioli, Catherine, *see* Marty, Jean
Rockoff, Mark A., *see* Harris, Mark M.
Roelandt, Jos R. T. C., *see* Cahalan, Michael K.
Roerig, David L., Kotlyr, Karel J., Vincins, Edwards J., Ahlf, Susan B., Dawson, Christopher A., Kampine, John P.: First Pass Uptake of Fentanyl, Meperidine, and Morphine in the Human Lung, 466
Rogers, Mark C., *see* Murray, Paul A.
Roizen, M. F., *see* Faure, E. A. M.; *also see* Rosen, M. A.
Roizen, Michael F., *see* Lichter, J. Lance
Rooney, *see* Howland
Rooney, Sharon-Marie, *see* Howland, William S.
Rose, Robert J., *see* Arnold, Donald E.
Rosen, M. A., Roizen, M. F., Eger, E. I., II, Glass, R. H., Martin, M., Dandekar, P. V., Dailey, P. A., Litt, L.: The Effect of Nitrous Oxide on *In Vitro* Fertilization Success Rate, 42
Rosen, M. A., *see* Cheek, D. B. C.
Rosenberg, Andrew D., *see* Bernstein, Ralph L.
Rosenberg, H., *see* Caroff, S. N.; *also see* Heiman-Patterson, T.
Rosenberg, Henry: Trismus is not Trivial, 453
Rosenberg, Per H., Scheinin, Barbro M.-A., Lepäntalo, Mauri J. A., Lindfors, Olof: Continuous Intrapleural Infusion of Bupivacaine for Analgesia after Thoracotomy, 811
Rosenthal, M. H., *see* Westphal, L. M.
Rosseel, Peter, *see* Cahalan, Michael K.
Rowe, Richard W., *see* Harris, Mark M.
Royster, R. L., *see* Johnston, W. E.
Royster, Roger L., *see* Urquhart, Murray L.
Rubiano, Remigio, Chang, Juei-Ling, Carroll, Joan, Sonbolian, Nasser, Larson, Christopher E.: Acute Rhabdomyolysis following Halothane Anesthesia without Succinylcholine, 856
Rubinstein, E. H., *see* Sessler, D. I.
Rudolph, A. M., *see* Brett, C. M.

- Ruffle, Joan M., Snider, Michael T.: Comparison of Rapid and Conventional Inhalation Inductions of Halothane Oxygen Anesthesia in Healthy Men and Women, 584
- Rulf, Evert N. R., *see* Cahalan, Michael K.
- Rung, George W., *see* Hillman, David R.
- Running, Vicki, *see* Swedlow, David B.
- Rupp, S. M.: Central Venous Pressure Monitoring during Cesarean Section, 146
- Rupp, S. M., Castagnoli, K. P., Fisher, D. M., Miller, R. D.: Pancuronium and Vecuronium Pharmacokinetics and Pharmacodynamics in Younger and Elderly Adults, 45
- Rusy, Ben F., Komai, Hirochika: Anesthetic Depression of Myocardial Contractility: A Review of Possible Mechanisms, 745
- Rutberg, Hans, Hakanson, Erik, Hall, George M., Jorfeldt, Lennart: Effects of Graded Exercise on Leg Exchange of Energy Substrates in Malignant Hyperthermia Susceptible Subjects, 308
- Ruttimann, Urs, *see* Broadman, Lynn M.
- Ruttimann, Urs E., *see* Welborn, Leila G.
- Ryder, W. Alan, *see* Videcoq, Michel
- S**
- Sabourin, M. A., *see* Goresky, Gerald V.
- Saidman, Lawrence J.: Reply, 613
- Saidman, Lawrence J., *see* Mitchell, Mark M.
- Saint-Maurice, C., *see* Desparmet, J.; *also see* Murat, I.
- Sale, John P., *see* Goresky, Gerald V.
- Salvatierra, Cairo, *see* Benumof, Jonathan
- Samii, Kamran, *see* Tartiere, Jack
- Sand, David B.: Modifying the Fetal Monitor May be Hazardous, 448
- Sanders, Stephen P., *see* Harris, Mark M.
- Sarti, Armando, *see* Busoni, Paolo
- Sastry, B. V. R., *see* Kambam, J. Reddy
- Scheinin, Barbro M.-A., *see* Rosenberg, Per H.
- Scheller, M. S., *see* Unger, R.
- Scheller, Mark S., Todd, Michael M., Drummond, John C., Zornow, Mark H.: The Intracranial Pressure Effects of Isoflurane and Halothane Administered Following Cryogenic Brain Injury in Rabbits, 507
- Schena, J. A., *see* Hershenson, M. B.
- Scholander, E., *see* Bindslev, L.
- Schork, M. A., *see* Van Der Spek, A. F. L.
- Schulte-Sasse, Uwe, Tarnow, Joerg: Effects of Short-term Infusion of Nifedipine or Verapamil on Systemic Hemodynamics and Left Ventricular Myocardial Contractility in Patients prior to Coronary Artery Bypass Surgery, 492
- Schüttler, Jürgen, *see* Schwilden, Helmut
- Schwartz, A. E., *see* Ornstein, E.
- Schwartz, Nathan, *see* Reich, David L.
- Schwilden, Helmut, Schüttler, Jürgen, Stoeckel, Horst: Closed-loop Feedback Control of Methohexital Anesthesia by Quantitative EEG Analysis in Humans, 341
- Scott, J. C., *see* Woestenborghs, R. J. H.
- Sears, Daniel H., *see* Abdul-Rasool, Imad H.
- Seidman, Steven F., Marx, Gerti F.: Midazolam in Obstetric Anesthesia, 443
- Seitz, Rüdiger J., *see* Lipfert, Peter
- Seltzer, Joseph L., Larijani, Ghassem E., Goldberg, Michael E., Marr, Alexander T.: Intraleural Bupivacaine—A Kinetic and Dynamic Evaluation, 798
- Selvin, Beatrice L.: Electroconvulsive Therapy—1987, 367
- Serra, Mauricio, *see* Baden, Jeffrey M.
- Sessler, D. I., Rubinstein, E. H., Eger, E. I., II: Core Temperature Changes during N₂O Fentanyl and Halothane/O₂ Anesthesia, 137
- Sessler, D. I., *see* Litt, L.; *also see* Mills, P.
- Severinghaus, J. W., *see* Litt, L.
- Severinghaus, John W., Naifeh, Karen H.: Accuracy of Response of Six Pulse Oximeters to Profound Hypoxia, 551
- Sharbrough, Frank W., *see* Michenfelder, John D.
- Sharma, Manohar, *see* Cannon, John E.
- Sharma, S. L., *see* Grover, V. K.
- Shnider, S. M., *see* Cheek, D. B. C.; *also see* Levinson, G.
- Shnider, Sol M., Levinson, Gershon: Anesthesia for Obstetrics, 2nd Edition, 615
- Shnider, Sol M., *see* Brizgys, Ray V.
- Sibai, Abdel Nour, *see* Baraka, Anis
- Sieber, F. E., Smith, D. S., Traystman, R. J., Wollman, H.: Glucose: A Reevaluation of its Intraoperative Use, 72
- Siegel, M. N., Gravenstein, N.: Preventing Ambient Light from Affecting Pulse Oximetry, 280
- Sill, J. C., *see* Blaise, G.
- Silverberg, P. A., *see* Ornstein, E.
- Simpson, J. I., *see* Wolf, G. L.
- Singer, M. M.: No Evidence that Anesthesiologists Enhance Care of the Parturient, 152
- Siphanto, King, *see* Cahalan, Michael K.
- Sirgo, Mark A., *see* Leslie, John B.
- Sjöström, Staffan, Hartvig, Per, Persson, M. Peter, Tamsen, Anders: Pharmacokinetics of Epidural Morphine and Meperidine in Humans, 877
- Sjöström, Staffan, Tamsen, Anders, Persson, M. Peter, Hartvig, Per: Pharmacokinetics of Intrathecal Morphine and Meperidine in Humans, 889
- Skeehan, Thomas M., *see* Hensley, Frederick A., Jr.
- Sladen, R. N., *see* Westphal, L. M.
- Sladen, Robert N., Endo, Eric, Harrison, Thomas: Two-hour Versus 22-hour Creatinine Clearance in Critically Ill Patients, 1013
- Smith, *see* Bready
- Smith, C. E., *see* Laycock, J. R. D.
- Smith, D. S., Chance, B.: New Techniques, New Opportunities, Old Problems, 157
- Smith, D. S., *see* Sieber, F. E.
- Smith, N. Ty, *see* Weinger, Matthew B.
- Smith, S. D., *see* Borland, L. M.
- Snider, Michael T., *see* Ruffle, Joan M.
- Snyder, James V., Pinsky, Michael R.: Oxygen Transport in the Critically Ill, 614
- Soetens, M., *see* Zundert, A. Van
- Somerville, G. M., *see* Williams, J. P.
- Sonbolian, Nasser, *see* Rubiano, Remigio
- Sosis, Mitchel: On Gildar's Transtracheal Ventilation System, 446
- Spies, Bruce D., *see* Tuman, Kenneth J.
- Stanec, Anna, *see* Baker, Thomas
- Stanski, D. R., *see* Woestenborghs, R. J. H.
- Staren, Edgar, *see* Logas, William G.
- Stead, S. W., *see* Flacke, J. W.
- Stedman, P. M., *see* Busch, E. H.
- Steward, D. J., *see* Blackstock, D.
- Steward, David J., *see* Katz, Jordan; *also see* Opie, John C.
- Stewart, Ronald D., *see* Yealy, Donald M.
- Stirt, J. A., Grosslight, K. R., Bedford, R. F., Vollmer, D.: "Defasciculation" with Metocurine Prevents Succinylcholine-induced Increases in Intracranial Pressure, 50
- Stirt, Joseph A., Maggio, William, Haworth, Charles, Minton, Michael D., Bedford, Robert F.: Vecuronium: Effect on Intracranial Pressure and Hemodynamics in Neurosurgical Patients, 570
- Stoddard, Priscilla, *see* Arnold, Donald E.
- Stoeckel, Horst, *see* Schwilden, Helmut
- Stohler, C. S., *see* Van Der Spek, A. F. L.
- Stone, David J.: Another Use for the Fiberoptic Bronchoscope, 608
- Stone, J. Gilbert, *see* Videcoq, Michel
- Stout, David Michael, Bishop, Michael Joshua, Dwersteg, Jochen Friedrich, Cullen, Bruce Frederick: Correlation of Endotracheal Tube Size with Sore Throat and Hoarseness Following General Anesthesia, 419
- Strafford, Maureen A., *see* Harris, Mark M.
- Strandberg, Å., *see* Carlsson, Å., J.
- Strauch, B., *see* Kaplan, R.
- Straughen, William J., *see* Carrigan, Thomas W.
- Strauss, H. William, *see* Hurford, William E.
- Strum, David P., Johnson, Brynte H., Eger, Edmond I., II: Stability of Sevoflurane in Soda Lime, 779
- Strunin, Leo, *see* Goresky, Gerald V.
- Suite, Nicholas D. A., *see* Cassella, Eugénie Shalhoub
- Sundard, Pennathur, *see* Miller, Richard A.
- Sundt, Thoralf M., *see* Michenfelder, John D.
- Sung, M.-L., *see* Westphal, L. M.
- Suwa, Kunio, *see* Yanagida, Hisashi
- Swedenborg, J., *see* Bindslev, L.
- Swedlow, David B., Running, Vicki, Feaster, Sandra J.: Reply, 865
- T**
- Tahmouh, A. J., *see* Heiman-Patterson, T.
- Tait, Alan R., Knight, Paul R.: The Effects of

- General Anesthesia on Upper Respiratory Tract Infections in Children, 930
Takizawa, Kazunori, *see* Nishino, Takashi
Tamsen, Anders, *see* Sjöström, Staffan
Tan, P. L., *see* Faure, E. A. M.
Tan, Shirley, *see* Cohen, Sheila E.
Tarnow, J.: Reply to: Human Rights and Clinical Research, 144
Tarnow, Joerg, *see* Schulte-Sasse, Uwe
Tartiere, Jack, Berthelin, Catherine, Jehan, Claude, Trahay, Armelle, Samii, Kamran, Quesnel, Jacques: Hemodynamic Changes during Total Knee Replacement Surgery with Total Condylar Prosthesis, 838
Tashiro, Chikara, Yagi, Masaharu, Kinoshita, Hisao: Use of an Endotracheal Tube Without Radiopaque Marker for Cervical CT-scans, 1022
Taylor, Aubrey E., *see* Cope, Doris K.
Taylor, Kenneth M.: Cardiopulmonary Bypass, 450
Teitel, D. F., *see* Brett, C. M.
Teplack, Richard S.: Measuring Central Vascular Pressures: A Surprisingly Complex Problem, 289
Tessier, Joy, *see* Camp, Cathlyne E.
Thieme, Rita E., *see* Friesen, Robert H.
Thomas, Stephen J., *see* Kronenfeld, Mark A.
Thompson, Walter R., *see* Hillman, David R.
Thys, Daniel M., Hillel, Zaharia, Goldman, Martin E., Mindich, Bruce P., Kaplan, Joel A.: A Comparison of Hemodynamic Indices Derived by Invasive Monitoring and Two-dimensional Echocardiography, 630
Todd, Michael M., *see* Scheller, Mark S.; *also see* Zornow, Mark H.
Tong, Timothy: Reply, 605
Tønnesen, Else, Brinkløv, Morten M., Christensen, Niels J., Olesen, Anders S., Madsen, Tommy: Natural Killer Cell Activity and Lymphocyte Function During and After Coronary Artery Bypass Grafting in Relation to the Endocrine Stress Response, 526
Torda, Thomas A., *see* Tsui, David
Toyoda, Yoshiro, *see* Kubota, Hiroshi
Trahay, Armelle, *see* Tartiere, Jack
Tran, Dung O.: The Correct Position of the Head and Neck for Rapid Sequence Induction, 861
Traustman, R. J., *see* Sieber, F. E.
Tree-trakarn, Thara, Pirayavaraporn, Sangsom, Lertakyanamee, Jariya: Topical Analgesia for Relief of Post-circumcision Pain, 395
Trop, Davy, *see* Archer, David P.
Tsui, David, Graham, Garry G., Torda, Thomas A.: The Pharmacokinetics of Atracurium Isomers *In Vitro* and in Humans, 722
Tsuneto, S., Yamashita, M., Miyamoto, Y.: Tracheo-bronchial Angles in Neonates, 151
Tsuneto, Satoru, *see* Yamashita, Masao
Tucker, W. Y., *see* Johnston, W. E.

- Tullock, W. C., *see* Boucek, C. D.
Tuman, Kenneth J., McCarthy, Robert J., Spiess, Bruce D., Overfield, David M., Ivankovich, Anthony D.: Effects of Nitrous Oxide on Coronary Perfusion after Coronary Air Embolism, 952
Turndorf, Herman, *see* Kronenfeld, Mark A.
Turner, Lawrence A., Bosnjak, Zeljko J., Kampine, John P.: Actions of Halothane on the Electrical Activity of Purkinje Fibers Derived from Normal and Infarcted Canine Hearts, 619
Tweed, W. A., *see* Woodcock, T. E.
Tyler, Jane L., *see* Archer, David P.

U

- Umeda, Shinichiro, *see* Noda, Junko
Unger, R., Scheller, M. S.: More on Dyes and Pulse Oximeters, 148
Unger, R. J., Feiner, J. R.: Hemodynamic Effects of Intermittent Pneumatic Compression of the Legs, 266
Urquhart, Murray L., Ramsey, Frederic M., Royster, Roger L., Morell, Robert C., Gerr, Pat: Heart Rate and Rhythm Following an Edrophonium/atropine Mixture for Antagonism of Neuromuscular Blockade during Fentanyl/N₂O/O₂ or Isoflurane/N₂O/O₂ Anesthesia, 561
Urzua, Jorge: PEEP Antidiuresis: An Alternative Hypothesis, 608

V

- Vaes, L., *see* Van Zundert, A.
Van Der Aa, P., *see* Van Zundert, A.
Van Der Donck, A., *see* Van Zundert, A.
Van Der Spek, A. F. L., Fang, W. B., Ashton-Miller, J. A., Stohler, C. S., Carlson, D. S., Schork, M. A.: The Effects of Succinylcholine on Mouth Opening, 459
Vandewalker, G., *see* Murray, D.
Van Dyke, R. A., *see* Blaise, G.
Vanhoutte, P. M., *see* Blaise, G.
Van Zundert, A., Vaes, L., Soetens, M., De Vel, M., Van Der Aa, P., Van Der Donck, A., Meeuwis, H., De Wolf, A.: Every Dose Given in Epidural Analgesia for Vaginal Delivery Can Be a Test Dose, 436
Venable, Claudia, *see* Cooper, Jeffrey B.
Verrier, Edward D., *see* Cason, Brian A.
Vickery, Ross G., *see* Maze, Mervyn
Videcoq, Michel, Arvieux, Charles C., Ramsay, James G., Foëx, Pierre, Stone, J. Gilbert, Ryder, W. Alan, Jones, Lee A.: The Association Isoflurane-verapamil Causes Regional Left-ventricular Dyssynchrony in the Dog, 635
Vinten-Johansen, J., *see* Johnston, W. E.
Violante, Edward V., *see* Rice, Mark J.
Volgyesi, George A., *see* Wolf, Andrew R.
Vollmer, D., *see* Stirt, J. A.
Vucins, Eduards J., *see* Roerig, David L.

W

- Wade, John G., *see* Mensink, Fred J.
Wagner, David, *see* Wells, Douglas
Watts, L., *see* Khoury, G. F.
Wandless, J. G., *see* Fell, D.
Warberg, Jørgen, *see* Bach, Flemming W.
Wartler, David C., *see* Riley, David C.
Warner, M. A., *see* Kunkel, S. E.
Warner, Mark A., *see* Oliver, Susan B.
Watkins, Clyde A., Rannels, D. Eugene: Effects of Reduced Pulmonary Flow and Hypoxia on Metabolism of Serotonin by Rat Lungs Perfused *In Situ*, 916
Watkins, W. David, *see* Leslie, John B.
Weinberg, Paul, *see* Kronenfeld, Mark A.
Weinger, Matthew B., Cline, Elizabeth J., Smith, N. Ty, Koob, George F.: Ketanserin Pretreatment Reverses Alfentanil-induced Muscle Rigidity, 348
Welborn, Leila G., Hannallah, Raafat S., McGill, Willis A., Ruttimann, Urs E., Hicks, Jocelyn M.: Glucose Concentrations for Routine Intravenous Infusion in Pediatric Outpatient Surgery, 427
Welch, G. W., *see* Jackson, S.
Wells, Douglas, Davis, Gerald, Wagner, David: Accidental Injection of Epidural Methohexital, 846
Wells, Douglas G., Davies, Gerald: Profound Central Nervous System Depression from Epidural Fentanyl for Extracorporeal Shock Wave Lithotripsy, 991
Welsh, B. E.: A Method of Securing the Stethoscope Head, 280
Werner, O., *see* Jonmarker, C.; *also see* Larson, A.
Westover, Judd: Inadvertent Cannulation of an Aberrant Radial Artery, 610
Westphal, L. M., Cheng, E. Y., White, P. F., Sladen, R. N., Rosenthal, M. H., Sung, M.-L.: Use of Midazolam Infusion for Sedation following Cardiac Surgery, 257
Westrin, P., *see* Jonmarker, C.
White, P. F., *see* Westphal, L. M.
Wiegert, Philip E.: Reply, 1019
Wilkinson, G. R., *see* Gordon, L.
Williams, E. Lynne, Dicks, Alan, Benson, Don M.: Pollution Associated with Keyed Filling Devices, 610
Williams, G. D., *see* Conahan, T. J., III
Williams, J. P., Somerville, G. M., Miner, M. E., Reilly, D.: Atlanto-axial Subluxation and Trisomy-21: Another Perioperative Complication, 253
Williams, Otis A., Jr.: Intraocular Pressure Changes during Muscular Hyperactivity after General Anesthesia, 604
Wilson, John M., *see* Bokesch, Paula M.
Wilton, N., *see* Hantler, C. B.
Woestenborghs, R. J. H., Stanski, D. R., Scott, J. C., Heykants, J. J. P.: Assay Methods for Fentanyl in Serum: Gas-Liquid Chromatography Versus Radioimmunoassay, 85

Wolf, Andrew R., Volgyesi, George A.: A Modified Pitot Tube for the Accurate Measurement of Tidal Volume in Children, 775
 Wolf, G. L., Simpson, J. L.: Flammability of Endotracheal Tubes in Oxygen and Nitrous Oxide Enriched Atmosphere, 236
 Wollman, H., *see* Sieber, F. E.
 Wolske, Patricia, *see* Dallas, Terri L.
 Wong, D., *see* Flacke, J. W.
 Woo, R., McQueen, J.: Apnea and Syncope Following Intravenous Guanethidine Bier Block in the Same Patient on Two Different Occasions, 281
 Wood, A. J. J., *see* Gordon, L.
 Wood, L. D. H., *see* Gottlieb, S. S.
 Wood, M., *see* Gordon, L.
 Woodcock, T. E., Murkin, J. M., Farrar, J. K., Tweed, W. A., Guiraudon, G. M., McKenzie, F. N.: Pharmacologic EEG Suppression during Cardiopulmonary Bypass: Cerebral Hemodynamic and Metabolic Effects of Thiopental or Isoflurane during Hypothermia and Normothermia, 218

Wu, Wen-Hsien: Pain Management: Assessment and Treatment of Acute and Chronic Syndromes, 614
 Wu, Wen-Hsien, *see* Dallas, Terri L.

Y

Yagi, Masaharu, *see* Tashiro, Chikara
 Yahagi, Naoki, Furuya, Hitoshi: The Effects of Halothane and Pentobarbital on the Threshold of Transpulmonary Passage of Venous Air Emboli in Dogs, 905
 Yamashita, M., *see* Tsuneto, S.
 Yamashita, Masao, Tsuneto, Satoru: Anesthesia for an Infant with Severe Hyperinsulinism Treated by Pancreatectomy, 985
 Yanagida, Hisashi, Suwa, Kunio: Reply, 441
 Yazigi, Alex, *see* Baraka, Anis
 Yeager, Mark P., Glass, D. David: Reply, 1026
 Yealy, Donald M., Stewart, Ronald D.: Translaryngeal Cannula Ventilation: Continuing Misconceptions, 445
 Yemen, Terry A., *see* Harris, Mark M.

Yhap, Edgar O., *see* Fujinaga, Masahiko
 Yokokawa, Nobuko, *see* Nishino, Takashi
 Young, W. L., Josovitz, K., Morales, O., Chien, S.: The Effect of Nimodipine on Post-ischemic Cerebral Glucose Utilization and Blood Flow in the Rat, 54
 Young, W. L., *see* Ornstein, E.

Z

Zane, Edward A., Eisenkraft, James B., Haimov, Moshe: Hypocalcemia and Prolonged QT Interval Following Carotid Artery Surgery, 998
 Zauder, Howard L.: Succinylcholine-induced Hyperkalemia in Near-drowning, 605
 Ziemer, Gerhard, *see* Bokesch, Paula M.
 Zornow, Mark H., Todd, Michael M., Moore, Suzanne S.: The Acute Cerebral Effects of Changes in Plasma Osmolality and Oncotic Pressure, 936
 Zornow, Mark H., *see* Scheller, Mark S.

STATEMENT OF OWNERSHIP, MANAGEMENT AND CIRCULATION
(Required by 39 U.S.C. 3685)

Date of Filing—October 1, 1987

Title of Publication—Anesthesiology

Publication No. 025600

Frequency of Issue—13 Issues per year

Subscription Price—\$30.00

Location of Known Office of Publication—2350 Virginia Ave., Hagerstown, MD 21740

Location of the Headquarters of General Business Offices of the Publishers—East Washington Square, Philadelphia, PA 19105

Publisher—American Society of Anesthesiologists, Inc., East Washington Square, Philadelphia, PA 19105

Editor—Lawrence J. Suidman, M.D., Anesthesiology, T-015, University of California—San Diego, San Diego, CA 92093

Managing Editor—Ann S. Kishbaugh, East Washington Square, Philadelphia, PA 19105

Owner—American Society of Anesthesiologists, Inc., 515 Busse Highway, Park Ridge, IL 60068

Known Bondholders, Mortgagees and other Security Holders Owning or Holding 1 Percent or more of total amount of bonds, mortgages or other securities—None

The Purpose, Function, and Nonprofit Status of this organization and the exempt status for Federal income tax purposes—Has not changed during preceding 12 months

Average No. Copies Each Issue during Preceding 12 Months	Actual No. of Copies of Single Issues Published Nearest to Filing Date
36,346	36,100
—	—
33,938	34,001
33,938	34,001
569	304
34,307	34,305
2,039	1,795
—	—
36,346	36,100

A. Total no. copies printed (*net press run*)
 B. Paid circulation
 1. Sales through dealers and carriers, street vendors, and counter sales
 2. Mail Subscription
 C. Total paid circulation
 D. Free distribution by mail, carrier or other means. Samples, complimentary, and other free copies
 E. Total distribution (*sum of C and D*)
 F. Copies not distributed
 1. Office use, left over, unaccounted, spoiled after printing
 2. Return from news agents
 G. Total (*sum of E & F—should equal net press run shown in A*)

I certify that the statements made by me above are correct and complete.
 Joseph W. Lippincott III, Publisher

